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OCCUPATIONAL EMPLOYMENT STATISTICS
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1983

MANUFACTURING INDUSTRIES
PEOPLE AT WORK
STAFFING PATTERNS
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DEPARTMENT OF EMPLOYMENT SECURITY

NEW HAMPSHIRE STAFFING PATTERNS
IN
MANUFACTURING
INDUSTRIES
1983

An Occupational Employment Statistics Survey

Conducted By The

Economic Analysis and Reports Section

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

In Cooperation With The

U.S. BUREAU OF LABOR STATISTICS

Published March 1985

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PREFACE

Our sincere appreciation is extended to those employers who participated in this survey. Without their support, this publication would not have been possible.

We also would like to express our thanks to the United States Department of Labor, both at the regional level in Boston, M.A. and the national level in Washington, D.C. for their help in the Federal-State Cooperative effort.

This report was prepared by the New Hampshire Occupational Employment Statistics (OES) Program staff William Halm, and other Research staff including; Tracey Petrozzi, Madaline Shanelaris and Sarah Stapleton with programming and data processing support provided by Charles Marshall.

Your comments and suggestions as well as requests for more information are most welcome. We may be reached at the following address:

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INTRODUCTION

The United States Department of Labor initiated the OES program in mid 1971 to meet the increasing demand for current occupational data. The program is based upon the collection of employment data by mail sampling selected sectors of the economy on a recurring three year cycle.

Publications of the first, second and third cycles include: Government (1974, 1977, 1979 and 1982); Trade (1976, 1979 and 1982); Manufacturing (1977 and 1980); Construction, Insurance, Finance, Real Estate and Services (1978); Educational Services (1978); Regulated Industries (1976, 1979 and 1982) and Hospitals (1980).

Between June 1983 and April 1984, the New Hampshire Department of Employment Security conducted an occupational employment survey of Manufacturing industries by means of a questionnaire. This report is the second in the third survey cycle and was compiled from usable returns from the original mailing plus one follow up.

As used in this report, Standard Industrial Classification (SIC) defines industries according to composition and structure and spans the entire field of economic activities. Industrially classified statistics are used not only to show how industries have performed over past years but to indicate emerging and rapidly growing industries. The data obtained from these surveys is being used as input to update the OES Industry/Occupation Matrix. It, in turn, provides the base for projecting the non-farm sector or any industry subdivision thereof.

A new coding structure was used for the Manufacturing and Hospital survey. (See appendix.) The total number of occupations were reduced from 1,606 to 720 to more nearly agree with the number used by the Standard Occupational Classification (SOC) system and the Census which use 663 and 503 occupational titles respectively.

The goal of the OES program is to direct training programs to meet both current and long-range personnel needs. To that end, it is an invaluable tool enabling employers, educational planners, manpower analysts, economists and other users to intelligently deal with inequities in the supply and demand of workers in specific occupations on the local, state or national level. Some industries could not be published since there were insufficient usable returns and the information could be misleading or publication would jeopardize the confidentiality of data provided by some of the firms reporting.

SUMMARY

OCCUPATIONAL EMPLOYMENT
MANUFACTURING IN NEW HAMPSHIRE

(SIC 20-39)

The manufacturing division includes establishments engaged in the mechanical or chemical transformation of materials or substances into new products. These establishments are usually described as plants, factories, or mills and characteristically use power driven machines and materials handling equipment. Establishments engaged in assembling component parts of manufacturing products are also considered manufacturing if the new product is neither a structure nor other fixed improvement. Also included is the blending of materials such as lubricating oils, plastics, resins, or liquors.

During the occupational survey period of the second quarter of 1983 there were 112,699 wage and salary workers employed in all manufacturing industries in New Hampshire. This represented a loss of 4,037 workers or 3.5 percent from the previous manufacturing survey conducted in 1980. This decline in manufacturing employment followed a period of continuous expansion from 1977-1980 and it occurred as the national economy experienced a recession which began in late 1980. Durable and nondurable goods experienced almost equal losses of 1,917 and 1,954 workers respectively. However, the electrical and electronic machinery, equipment and supplies industry added 2,258 workers, an increase of over 11 percent during this period. Hillsborough County contains the largest concentration of manufacturing employment (see chart on page 2).

This distribution of manufacturing workers among major occupational groups shows that the largest percentage, almost 64 percent, is concentrated in production, construction, maintenance and material handling occupations. Professional, paraprofessional and technical occupations and clerical occupations accounted for approximately 13 and 12 percent of the manufacturing employment respectively.

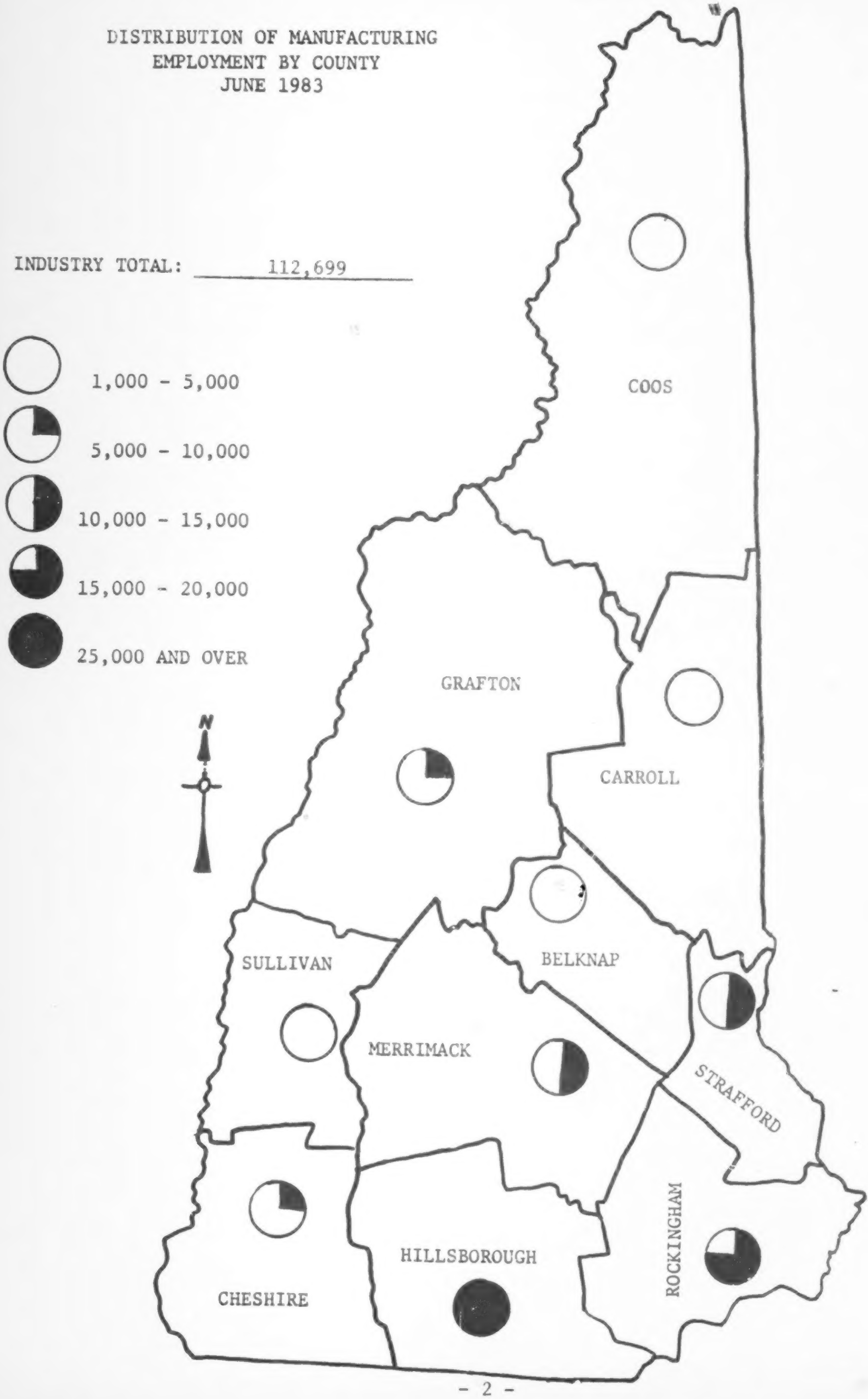
Data for Primary Metal Industries (SIC 33), Rubber and Miscellaneous Plastic Products (SIC 30), Transportation Equipment (SIC 37), Chemical and Allied Products (SIC 28) and Petroleum and Coal Products (SIC 29) were not published since they did not meet the criteria for publication (see appendix).

Our sample consisted of 1,139 units representing an employment of 107,499. Usable responses were received from 837 units of 73 percent of the units sampled. The reported employment was 82,718 or 77 percent of the employment in the sample.

New Hampshire

DISTRIBUTION OF MANUFACTURING EMPLOYMENT BY COUNTY
JUNE 1983

INDUSTRY TOTAL: 112,699


1,000 - 5,000
5,000 - 10,000
10,000 - 15,000
15,000 - 20,000
25,000 AND OVER
N
COOS
GRAFTON
CARROLL
BELKNAP
SULLIVAN
MERRIMACK
STRAFFORD
CHESHIRE
HILLSBOROUGH
ROCKINGHAM

MANUFACTURING IN NEW HAMPSHIRE

SIC 20-39

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1980 - SECOND QUARTER 1983)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	2nd. Qtr. 1983 ESTIMATED EMPLOYMENT	Numerical Change	Percent Change
20-39	ALL MANUFACTURING	116,736*	112,699*	-4,037	- 3.5
24,25,32-39	DURABLE GOODS MFG.	74,304*	72,221*	-1,917	- 2.7
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	4,645	4,708	63	1.4
242	Sawmills and Planing Mills	1,711	1,739	28	1.6
243	Millwork, Veneer, Plywood, and Structural Wood Members	916	915	1	- 0.1
25	FURNITURE AND FIXTURES	1,881	1,365	- 516	-27.4
251	Household Furniture	1,463	1,029	- 434	-29.7
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	2,939	2,394	- 545	-18.5
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	1,278	1,035	- 243	-19.0
33	PRIMARY METAL INDUSTRIES	3,741	3,661	- 80	- 2.1
335	Rolling, Drawing, and Extruding of Nonferrous Metals	1,191	1,396	205	17.2
336	Nonferrous Foundries (Castings)	1,054	1,120	66	6.3
34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	7,413	6,986	- 427	- 5.8
344	Fabricated Structural Metal Products	2,169	1,925	- 244	-11.2
349	Miscellaneous Fabricated Metal Products	1,419	1,584	165	11.6
35	MACHINERY, EXCEPT ELECTRICAL	23,442	21,436	-2,006	- 8.6
353	Construction, Mining, and Materials Handling Machinery and Equipment	857	371	- 486	-56.7
354	Metalworking Machinery and Equipment	3,110	2,560	- 550	-17.7
355	Special Industry Machinery, Except Metalworking Machinery	4,112	2,997	-1,115	-27.1
356	General Industrial Machinery and Equipment	3,456	3,433	- 23	- 0.7
357	Office, Computing, and accounting Machines	10,491	10,670	179	1.7
359	Miscellaneous Machinery, Except Electrical	1,118	1,126	8	0.7

MANUFACTURING IN NEW HAMPSHIRE

SIC 20-39

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS (SECOND QUARTER 1980 - SECOND QUARTER 1983)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	2nd. Qtr. 1983 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES	19,772	22,030	2,258	11.4
362	Electrical Industrial Apparatus	1,010	785	- 225	-22.3
364	Electric Lighting and Wiring Equipment	2,936	2,317	- 619	-21.1
366	Communication Equipment	6,401	8,962	2,561	40.0
367	Electronic Components and Accessories	7,531	8,339	808	10.7
369	Miscellaneous Electrical Machinery, Equipment and Supplies	1,151	986	- 165	-14.3
38	INSTRUMENTS AND RELATED SUPPLIES	7,668	7,058	- 610	- 8.0
381	Engineering and Scientific Instruments	1,691	2,503	812	48.0
382	Measuring and Controlling Instruments	4,452	3,292	-1,160	-26.1
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	2,004	1,778	- 226	-11.3
399	Miscellaneous Manufacturers	973	970	- 3	- 0.3
20-23,26-31	NONDURABLE GOODS MFG.	42,432*	40,478*	-1,954	- 4.6
20	FOOD AND KINDRED PRODUCTS	2,937	2,849	- 88	- 3.0
208	Beverages	1,077	1,048	- 29	- 2.7
22	TEXTILE MILL PRODUCTS	4,885	3,862	-1,023	-20.9
223	Broad Woven Fabric Mills, Wool	1,299	1,070	- 229	-17.6
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	1,062	963	- 99	- 9.3
225	Knitting Mills	814	647	- 167	-20.5
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	2,880	2,800	- 80	- 2.8
233	Women's Misses', and Juniors Outerwear	1,989	2,109	120	6.0

MANUFACTURING IN NEW HAMPSHIRE

SIC 20-39

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1980 - SECOND QUARTER 1983)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	2nd. Qtr. 1983 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
26	PAPER AND ALLIED PRODUCTS	6,469	5,320	-1,149	-17.8
262	Paper Mills, Except Building Paper Mills	3,228	2,645	- 583	-18.1
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	6,243	6,812	569	9.1
271	Newspapers: Publishing, Publishing and Printing	1,632	1,879	247	15.1
275	Commercial Printing	2,428	2,344	- 84	- 3.5
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	8,623	9,037	414	4.8
302	Rubber and Plastics Footwear	1,518	1,254	- 264	-17.4
306	Fabricated Rubber Products Not Elsewhere Classified	1,177	1,279	102	8.7
307	Miscellaneous Plastics Products	5,928	6,493	565	9.5
31	LEATHER AND LEATHER PRODUCTS	9,543	8,802	- 741	- 7.8
314	Footwear, Except Rubber	8,024	7,736	- 288	- 3.6

* Totals include estimates for the entire survey, including industries which have not met publication criteria.

STAFFING PATTERNS - MANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1983 ESTIMATED EMPLOYMENT	PERCENT MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39000	SALES 40000-49000	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
20-39	TOTAL ALL MANUFACTURING	112,699	6.6	13.1	2.4	12.2	1.4	0.6	63.6
24,25, 32-39	DURABLE GOODS MANUFACTURING	72,221	7.4	18.0	2.1	13.0	1.5	0.8	57.2
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	4,708	6.1	1.8	2.4	8.4	2.1	11.7	67.5
242	Sawmills and Planing Mills	1,739	5.9	1.4	1.0	8.3	3.2	13.6	66.6
243	Millwork, Veneer, Plywood, and Structural Wood Members	915	5.8	0.9	5.4	7.1	1.9	0.5	78.4
25	FURNITURE AND FIXTURES	1,365	3.9	3.7	2.8	16.3	2.3	-	71.0
251	Household Furniture	1,029	3.1	2.6	2.5	18.2	2.6	-	71.0
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	2,394	6.5	7.0	6.3	10.0	1.7	0.2	68.3
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	1,035	3.9	10.2	3.2	9.8	3.7	0.1	69.1
33	PRIMARY METAL INDUSTRIES	3,661	6.5	7.0	1.4	8.3	1.8	0.1	74.9
335	Rolling, Drawing, and Extruding Of Nonferrous Metals	1,396	7.5	11.7	2.2	8.3	1.9	0.1	68.3
336	Nonferrous Foundries (Castings)	1,120	5.3	7.3	1.3	9.3	2.2	-	74.6
34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	6,986	5.3	5.8	2.0	8.2	1.4	-	77.4
344	Fabricated Structural Metal Products	1,925	6.1	7.5	3.0	4.6	1.5	-	77.3
349	Miscellaneous Fabricated Metal Products	1,584	7.3	6.0	2.4	16.4	1.1	-	66.7

STAFFING PATTERNS - MANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1983 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39000	SALES 40000-49000	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
35	MACHINERY, EXCEPT ELECTRICAL	21,436	9.3	26.3	2.7	18.5	1.3	0.1	41.8
353	Construction, Mining, and Materials Handling Machinery and Equipment	371	5.1	17.2	0.3	14.3	0.8	-	62.3
354	Metalworking Machinery and Equipment	2,560	7.5	16.2	6.8	13.6	1.6	-	54.3
355	Special Industry Machinery, Except Metalworking Machinery	2,997	4.5	18.9	3.9	14.7	0.6	-	57.4
356	General Industrial Machinery and Equipment	3,433	7.0	10.3	2.1	10.3	1.8	0.5	68.0
357	Office, Computing, and Accounting Machines	10,670	12.3	39.3	1.5	24.5	1.4	-	21.0
359	Miscellaneous Machinery, Except Electrical	1,126	8.5	2.9	1.8	11.4	1.1	-	74.3
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES	22,030	7.7	23.8	1.2	11.4	1.7	-	54.2
362	Electrical Industrial Apparatus	785	3.6	13.4	0.6	13.5	3.7	-	65.2
364	Electric Lighting and Wiring Equipment	2,317	2.7	8.4	3.1	6.2	0.6	-	79.0
366	Communication Equipment	8,962	13.5	45.3	0.3	17.1	2.6	-	21.2
367	Electronic Components and Accessories	8,339	3.8	9.3	1.3	6.9	1.0	-	77.7
369	Miscellaneous Electrical Machinery, Equipment and Supplies	986	4.4	6.7	3.7	9.6	1.1	-	74.5
38	INSTRUMENTS AND RELATED SUPPLIES	7,058	5.9	14.4	1.3	13.6	1.2	0.1	63.4
381	Engineering and Scientific Instruments	2,503	4.7	21.4	1.1	19.7	1.4	-	51.7
382	Measuring and Controlling Instruments	3,292	6.0	10.8	1.6	9.3	1.2	0.1	71.0
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	1,778	5.5	3.9	5.9	9.2	1.2	0.1	74.2
399	Miscellaneous Manufacturers	970	5.2	4.3	4.3	7.2	1.1	-	77.9

STAFFING PATTERNS - MANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1983 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39000	SALES 40000-49000	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
20-23 26-31	NONDURABLE GOODS MANUFACTURING	40,478	5.4	4.4	3.0	10.8	1.2	0.1	75.1
20	FOOD AND KINDRED PRODUCTS	2,849	4.4	3.0	4.2	10.7	1.0	0.1	76.6
208	Beverages	1,048	2.2	4.0	2.6	12.1	1.1	-	78.0
22	TEXTILE MILL PRODUCTS	3,862	3.8	1.6	0.6	6.4	1.3	-	86.3
223	Broad Woven Fabric Mills, Wool	1,070	2.3	0.5	-	3.5	0.6	-	93.1
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	963	4.9	1.3	1.3	7.0	2.2	-	83.3
225	Knitting Mills	647	3.4	1.7	0.5	8.5	0.6	-	85.3
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	2,800	4.4	1.6	2.9	7.9	1.3	-	81.9
233	Women's, Misses' and Juniors Outerwear	2,109	4.2	1.6	2.4	6.9	1.3	-	83.6
26	PAPER AND ALLIED PRODUCTS	5,320	3.6	3.0	3.6	8.2	2.0	0.8	78.8
262	Paper Mills, Except Building Paper Mills	2,645	3.0	4.0	1.7	8.0	2.0	1.5	79.8
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	6,812	6.9	9.8	7.5	20.4	1.2	-	54.2
271	Newspapers: Publishing, Publishing and Printing	1,879	7.0	18.0	14.6	23.4	0.8	-	36.2
275	Commercial Printing	2,344	5.4	1.1	4.2	12.4	0.7	-	76.2
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	9,037	8.6	3.8	1.5	7.0	0.8	-	78.3
302	Rubber and Plastics Footwear	1,254	8.9	-	0.6	7.6	0.6	-	82.3
306	Fabricated Rubber Products Not Elsewhere Classified	1,279	3.2	3.0	0.9	5.7	1.3	0.1	85.8
307	Miscellaneous Plastics Products	6,493	9.7	4.7	1.7	7.2	0.7	-	76.0

31	LEATHER AND LEATHER PRODUCTS	8,802	2.9	2.6	1.0	11.4	1.3	-	80.8
314	FOOTWEAR, EXCEPT RUBBER	7,736	2.7	2.7	0.8	12.1	1.3	-	80.4

THE TWENTY MANUFACTURING OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	93956	Assemblers and Fabricators-Except Machines, Electrical, Electronic and Precision	4,685	4.2
2	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	3,633	3.2
3	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	3,393	3.0
4	19005	General Managers and Top Executives	3,009	2.7
5	55100	Secretaries	2,732	2.4
6	22126	Electrical and Electronics Engineers	2,671	2.4
7	93905	Electrical and Electronic Assemblers	2,646	2.3
8	93114	Electrical and Electronic Equipment Assemblers-Precision	2,517	2.2
9	92723	Shoe Sewing Machine Operators and Tenders	2,071	1.8
10	83002	Precision Inspectors, Testers, and Graders	1,950	1.7
11	98905	Hand Packers and Packagers	1,806	1.6
12	98502	Machine Feeders and Offbearers	1,749	1.6
13	89108	Machinists	1,718	1.5
14	22505	Electrical and Electronic Engineering Technicians and Technologists	1,534	1.4
15	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	1,439	1.3
16	92717	Sewing Machine Operators, Garment	1,318	1.2
17	85132	Maintenance Repairers, General Utility	1,287	1.1
18	58028	Traffic, Shipping, and Receiving Clerks	1,254	1.1
	98700	Freight, Stock, and Material Movers, Hand	1,254	1.1
20	55347	General Office Clerks	1,248	1.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		112,699	100.0
MANAGERS AND ADMINISTRATOR	10000-19999	7,521	6.6
Financial Managers	13002	649	0.6
Personnel, Training, And Labor Relations Managers	13005	247	0.2
Purchasing Managers	13008	230	0.2
Marketing, Advertising, And Public Relations Managers	13011	652	0.6
Administrative Services Managers	13014	237	0.2
Industrial Production Managers	15014	1,217	1.1
General Managers And Top Executives	19005	3,009	2.7
All Other Managers And Administrators	19999	1,253	1.0
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	14,744	13.1
Accountants And Auditors	21114	925	0.8
Budget Analysts	21117	75	0.1
All Other Financial Specialists	21199	125	0.1
Purchasing Agents And Buyers, Farm Products	21305	15	*
Purchasing Agents, Except Farm Products	21308	452	0.4
Personnel, Training, And Labor Relations Specialists	21511	251	0.2
Cost Estimators	21902	205	0.2
All Other Management Support Workers	21999	688	0.7
Metallurgists And Metallurgical, Ceramic, And Materials Engineers	22105	76	0.1
Chemical Engineers	22114	68	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Civil Engineers, Including Traffic	22121	12	*
Agricultural Engineers	22123	50	0.1
Electrical And Electronics Engineers	22126	2,671	2.4
Industrial Engineers, Except Safety	22128	603	0.5
Safety Engineers, Except Mining	22132	54	0.1
Mechanical Engineers	22135	727	0.6
All Other Engineers	22199	785	0.7
Civil Engineering Technicians And Technologists	22502	75	0.1
Electrical And Electronic Engineering Technicians And Technologists	22505	1,534	1.4
Industrial Engineering Technicians And Technologists	22508	91	0.1
Mechanical Engineering Technicians And Technologists	22511	254	0.2
Drafters	22514	829	0.7
All Other Engineering And Related Technicians And Technologists	22599	555	0.5
Physicists And Astronomers	24102	33	*
Chemists	24105	87	0.1
All Other Physical Scientists	24199	49	0.1
Biological, Agricultural And Food Technicians And Technologists, Except Health	24502	20	*
Chemical Technicians And Technologists, Except Health	24505	173	0.2
All Other Physical And Life Science Technicians And Technologists	24599	14	*
Systems Analysts, Electronic Data Processing	25102	284	0.3
Computer Programmers	25105	789	0.7
Computer Programmer Aides	25108	151	0.1
Programmers-Numerical, Tool, And Process Control	25111	81	0.1
Operations And Systems Researchers And Analysts, Except Computer	25302	31	*
Lawyers	28108	12	*

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Health Practitioners, Technologists, Technicians, And Related Health Occupations	32000	93	0.1
All Other Health Professional, Paraprofessionals, And Technicians	32999	46	0.1
Writers And Editors	34002	222	0.2
Technical Writers	34005	265	0.2
Reporters And Correspondents	34011	174	0.2
Photographers	34023	14	*
Artists And Related Workers	34035	10	*
Designers	34038	314	0.3
All Other Professional, Paraprofessional, And Technical Workers	39999	762	0.7
SALES OCCUPATIONS	40000-49999	2,741	2.4
First Line Supervisors And Manager/Supervisors-Sales And Related Occupations	41002	282	0.2
Sales Agents, Advertising	43023	93	0.1
Sales Engineers	49002	252	0.2
Sales Representatives, Scientific And Related Products And Services	49005	646	0.6
Other Sales Representatives	49008	1,100	1.0
Salespersons, Retail	49011	22	*
News And Street Vendors, Telephone Solicitors, Door To Door Sales Workers And Other Related Workers	49026	13	*
All Other Sales And Related Workers	49999	333	0.3
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	13,762	12.2
First Line Supervisors And Manager/Supervisors-Clerical And Administrative Support Occupations	51002	443	0.4
Advertising Clerks	53908	33	*
Proofreaders And Copy Markers	53911	113	0.1
Secretaries	55100	2,732	2.4
Stenographers	55302	95	0.1
Receptionists And Information Clerks	55305	127	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Typists	55308	619	0.5
Typists, Word Processor	55311	133	0.1
Personnel Clerks	55314	143	0.1
File Clerks	55321	111	0.1
Order Clerks	55323	503	0.4
Procurement Clerks	55326	148	0.1
Statistical Clerks	55328	26	*
Bookkeeping, Accounting, And Auditing Clerks	55338	1,204	1.1
Payroll And Timekeeping Clerks	55341	282	0.3
Billing, Cost And Rate Clerks	55344	258	0.2
General Office Clerks	55347	1,248	1.1
Billing, Posting, And Calculating Machine Operators	56002	35	*
Mail Machine Operators, Preparation And Handling	56008	64	0.1
Computer Operators	56011	246	0.2
Peripheral EDP Equipment Operators	56014	62	0.1
Data Entry Keyers	56017	400	0.4
Data Keyers, Composing	56021	132	0.1
All Other Office Machine Operators	56099	68	0.1
Switchboard Operators	57102	151	0.1
Mail Clerks, Except Mail Machine Operators And Postal Service	57302	58	0.1
Production, Planning, And Expediting Clerks	58008	1,102	1.0
Weighers, Measurers, Checkers, And Samplers-Recordkeeping	58017	46	*
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	1,439	1.3
Traffic, Shipping, And Receiving Clerks	58028	1,254	1.1
All Other Material Recording, Scheduling, And Distributing Workers	58099	296	0.3
All Other Clerical And Administrative Support Workers	59999	191	0.2
SERVICE OCCUPATIONS	60000-69999	1,608	1.4
First Line Supervisors And Manager/Supervisors- Service	61000	157	0.1
Guards And Watch Guards	63047	423	0.4

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Food Beverage Preparation And Service Occupations	65000	29	*
Janitors And Cleaners	67005	934	0.8
Elevator Operators	67011	11	*
All Other Cleaning And Building Service Workers, Except Private Households	67099	29	*
All Other Service Workers	69999	25	*
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	635	0.6
First Line Supervisors And Manager/Supervisors - Agricultural, Forestry, Fishing, And Related Workers	72002	69	0.1
Fallers And Buckers	73002	150	0.1
Log Handling Equipment Operators	73008	100	0.1
Logging Tractor Operators	73011	175	0.2
All Other Timber Cutting And Related Logging Workers	73099	6	*
Forest And Conservation Workers	79002	13	*
Log Graders And Scalers	79008	48	0.1
Gardeners And Groundskeepers, Except Farm	79014	41	*
All Other Agricultural, Forestry, Fishing, And Related Workers	79999	33	*
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	71,688	63.6
First Line Supervisors and Manager/Supervisors-Mechanics, Installers And Repairers	81002	172	0.2
First Line Supervisors And Manager/Supervisors Construction Trades And Extractive Workers	81005	33	*
First Line Supervisors And Manager/Supervisors Production And Operating Workers	81008	3,633	3.2

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
First Line Supervisors And Manager/Supervisors-Transportation And Material Moving Machine And Vehicle Occupations	81011	104	0.1
First Line Supervisors And Manager/Supervisors-Helpers, Laborers, And Material Movers, Hand	81017	265	0.2
All Other First Line Supervisors And Manager/Supervisors-Production, Construction, Maintenance And Related	81099	18	*
Precision Inspectors, Testers, And Graders	83002	1,950	1.7
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	3,393	3.0
Machinery Maintenance Mechanics	85110	740	0.7
Machinery Maintenance Mechanics-Textile Machines	85112	137	0.1
Machinery Maintenance Mechanics-Sewing Machines	85113	52	0.1
Machinery Maintenance Mechanics-Water Or power Generation Plant	85118	160	0.1
All Other Machinery Maintenance Mechanics	85119	122	0.1
Millwrights	85123	171	0.2
Machinery Maintenance Workers	85128	185	0.2
Maintenance Repairers, General Utility	85132	1,287	1.1
Automotive Mechanics	85302	55	0.1
Bus And Truck Mechanics, And Diesel Engine Specialists	85311	22	*
Mobile Heavy Equipment Mechanics, Except Engines	85314	17	*
Data Processing Equipment Repairers	85705	65	0.1
Electronics Repairers, Commercial And Industrial Equipment	85717	15	*
Heating, Air Conditioning, And Refrigeration Mechanics And Installers	85902	23	*
Precision Instrument Repairers	85905	128	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Mechanical Control And Value Installers And Repairers	85928	14	*
Riggers	85935	45	*
Coin And Vending Machine Servicers And Repairers	85947	30	*
Menders	85956	50	0.1
All other Mechanics, Installers And Repairers	85999	102	0.1
Carpenters	87102	375	0.3
Electricians	87202	338	0.3
Painters And Paperhangers	87402	147	0.1
Plumbers And Pipefitters	87502	143	0.1
All Other Construction Trades Workers	87899	104	0.1
Tool And Die Makers	89102	729	0.6
Precision Instrument Makers	89105	41	*
Machinists	89108	1,718	1.5
Tool Grinders, Filers, Sharpeners, And Other Precision Grinders	89111	274	0.2
Pattern And Model Makers, Metal	89114	42	*
Precision Layout Workers, Metal	89117	44	*
Sheet Metal Workers	89132	325	0.3
All Other Precision Metal Workers	89199	154	0.1
Precision Wood Workers	89300	53	0.1
Pattern And Model Makers-Wood	89302	32	*
Wood Machinists	89308	126	0.1
Cabinetmakers And Bench Carpenters	89311	426	0.4
Furniture Finishers	89314	72	0.1
All Other Precision Wood-Workers	89399	46	*
Fabric And Apparel Patternmakers, And Layout Workers	89502	47	*
Custom Tailors And Sewers	89505	25	*
Shoe And Leather Workers And Repairers-Precision	89511	338	0.3
Precision Dyers	89521	13	*
All other Precision Textile, Apparel, And Furnishings Workers	89599	60	0.1
Precision Compositors, Type-setters, And Arrangers	89702	125	0.1
Job Printers	89705	35	*
Precision Lithography And Photoengraving Workers	89708	248	0.2

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Bookbinders	89711	32	*
All Other Precision Printing Workers	89799	127	0.1
Bakers, Manufacturing	89805	30	*
All Other Precision Food And Tobacco Workers	89899	22	*
Precision Foundry Mold And Core Makers	89902	176	0.2
Precision Molders, Shapers, Casters, And Carvers, Except Jewelry And Foundry	89905	16	*
Precision Detail Design Decorators And Painters	89911	69	0.1
Precision Optical Goods Workers	89917	33	*
All Other Precision Workers	89999	282	0.2
Sawing Machine Tool Setters And Set-Up Operators, Metal And Plastic	91102	60	0.1
Lathe And Turning Machine Tool Setters And Set-Up Operators, Metal And Plastic	91105	523	0.5
Drilling And Boring Machine Tool Setters And Set-Up Operators, Metal And Plastic	91108	299	0.3
Milling And Planing Machine Setters And Set-Up Operators, Metal And Plastic	91111	143	0.1
Grinding, Lapping, And Buffing Machine Tool Setters And Set-Up Operators, Metal And Plastic	91114	703	0.6
Machine Tool Cutting Operators And Tenders, Metal And Plastic	91117	721	0.6
Punching Machine Setters And Set-Up Operators, Metal And Plastic	91302	369	0.3
Press And Press Brake Machine Setters And Set-Up Operators, Metal And Plastic	91305	246	0.2
Shear And Slitter Machine Setters And Set-Up Operators, Metal And Plastic	91308	65	0.1
Extruding And Drawing Machine Setters And Set-Up Operators, Metal And Plastic	91311	130	0.1
Rolling Machine Setters And Set-Up Operators, Metal And Plastic	91314	43	*

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machine Forming Operators And Tenders, Metal And Plastic	91321	901	0.8
Numerical Control Machine Tool Operators And Tenders, Metal And Plastic	91502	513	0.5
Combination Machine Tool Setters And Set-Up Operators, Metal And Plastic	91505	267	0.2
Combination Machine Tool Operators And Tenders, Metal And Plastic	91508	431	0.4
Welding Machine Setters And Set-Up Operators	91702	163	0.1
Welding Machine, Operators And Tenders	91705	42	*
Soldering And Brazing Machine Setters And Set-Up Operators	91708	54	0.1
Soldering And Brazing Machine Operators And Tenders	91711	95	0.1
Metal Fabricators, Structural Metal Products	91714	31	*
Plastic Molding & Casting Machine Setters And Set-Up Operators	91902	230	0.2
Plastic Molding And Casting Machine Operators And Tenders	91905	559	0.5
Metal Molding, Coremaking, And Casting Machine Setters And Set-Up Operators	91908	170	0.2
Metal Molding, Coremaking And Casting Machine Operators And Tenders	91911	56	0.1
Foundry Mold Assembly And Shakeout Workers	91914	43	*
Electrolytic Plating And Coating Machine Setters And Set-Up Operators, Metal And Plastic	91917	24	*
Electrolytic Plating And Coating Machine Operators And Tenders, Metal And Plastic	91921	119	0.1
Nonelectrolytic Plating And Coating Machine Setters And Set-Up Operators, Metal And Plastic	91923	57	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Nonelectrolytic Plating And Coating Machine Operators And Tenders, Metal And Plastic	91926	49	0.1
Heating Equipment Setters And Set-Up Operators, Metal And Plastic	91928	11	*
Heat Treating, Annealing, And Tempering Machine Operators And Tenders, Metal And Plastic	91932	74	0.1
Furnace Operators And Tenders	91935	135	0.1
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	70	0.1
All Other Metal And Plastic Machine Operators And Tenders	92198	823	0.7
Sawing Machine Setters And Set-Up Operators	92302	60	0.1
Head Sawyers	92305	95	0.1
Sawing Machine Operators And Tenders	92308	395	0.4
Woodworking Machine Setters And Set-Up Operators, Except Sawing	92311	234	0.2
Woodworking Machine Operators And Tenders, Except Sawing	92314	545	0.5
Printing Press Machine Setters And Set-Up Operators	92510	16	*
Offset Lithographic Press Setters And Set-Up Operators	92512	233	0.2
Letterpress Setters And Set-Up Operators	92515	80	0.1
Photoengraving And Lithographing Photographers	92521	74	0.1
Specialty Materials Printing Machine Setters And Set-Up Operators	92522	98	0.1
Screen Printing Machine Setters And Set-Up Operators	92524	41	*
Bindery Machine Setters And Set-Up Operators	92525	62	0.1
All Other Printing Related Setters And Set-Up Operators	92529	40	*
Typesetting And Composing Machine Operators And Tenders	92541	149	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Printing Press Machine Operators And Tenders	92543	473	0.4
Bindery Machine Operators	92546	156	0.1
All Other Printing, Binding, And Related Machine Operators And Tenders	92549	216	0.2
Textile Machine Setters And Set-Up Operators	92702	215	0.2
Textile Machine Operators And Tenders-Winding, Twisting, Knitting, Weaving, And Cutting	92705	1,180	0.1
Extruding And Forming Machine Operators And Tenders, Synthetic Or Glass Fibers	92708	39	*
Textile Draw-Out Machine Operators And Tenders	92711	63	0.1
Textile Bleaching And Dyeing Machine Operators And Tenders	92714	238	0.2
Sewing Machine Operators, Garment	92717	1,318	1.2
Sewing Machine Operators, Non-Garment	92721	402	0.4
Shoe Sewing Machine Operators And Tenders	92723	2,071	1.8
Pressing Machine Operators And Tenders	92728	119	0.1
Electronic Semiconductor Processors	92902	36	*
Paper Goods Machine Setters And Set-Up Operators	92914	367	0.3
Cooking Machine Operators And Tenders, Food And Tobacco	92917	39	*
Roasting, Baking, And Drying Machine Operators And Tenders, Food And Tobacco	92921	37	*
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	105	0.1
Boiler Operators And Tenders	92926	117	0.1
Dairy Processing Equipment Operators, Including Setters	92932	13	*
Chemical Equipment Controllers And Operators	92935	94	0.1
Chemical Equipment Tenders	92938	50	0.1
Cutting And Slicing Machine Setters And Set-Up Operators And Tenders	92941	122	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Cutting And Slicing Machine Operators And Tenders	92944	641	0.6
Coating, Painting, And Spraying Machine Setters And Set-Up Operators	92951	251	0.2
Coating, Painting, And Spraying Machine Operators And Tenders	92953	325	0.3
Cementing And Gluing Machine Operators And Tenders	92956	874	0.8
Cleaning, Washing, And Pickling Equipment Operators and Tenders	92958	65	0.1
Separating, Filtering, Clarifying Precipitating, And Still Machine Operators And Tenders	92962	48	0.1
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	454	0.4
Extruding, Forming, Pressing, And Compacting Machine Setters And Set-Up Operators	92968	67	0.1
Extruding, Forming, Pressing, And Compacting Machine Operators And Tenders	92971	821	0.7
Packaging And Filling Machine Operators And Tenders	92974	698	0.6
All Other Machine Setters And Set-Up Operators	92997	507	0.4
All Other Machine Operators And Tenders	92998	1,866	1.7
Machine Builders And Other Precision Machine Assemblers	93105	502	0.4
Fitters, Structural Metal-Precision	93108	65	0.1
Electromechanical Equipment Assemblers-Precision	93111	848	0.8
Electrical And Electronic Equipment Assemblers-Precision	93114	2,517	2.2
Watch, Clock, And Chronometer Assemblers, Adjusters, And Calibrators-Precision	93117	207	0.2
All Other Precision Assemblers, Metal	93197	56	0.1
Machine Assemblers	93902	970	0.8
Electrical And Electronic Assemblers	93905	2,646	2.3

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Coil Winders, Tapers, And Finishers	93908	620	0.6
Welders And Cutters	93914	538	0.5
Solderers And Brazers	93917	230	0.2
Pressers, Hand	93921	80	0.1
Sewers, Hand	93923	328	0.3
Cutters And Trimmers, Hand	93926	494	0.4
Portable Machine Cutters	93928	106	0.1
Meat, Poultry, And Fish Cutters And Trimmers-Hand	93938	139	0.1
Metal Pourers And Casters, Basic Shapes	93941	104	0.1
Moulders And Casters, Hand	93944	97	0.1
Painting, Coating, And Decorating Workers, Hand	93947	127	0.1
Grinding And Polishing Workers, Hand	93953	520	0.5
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	4,685	4.2
All other Hand Workers	93999	1,908	1.7
Chemical Plant And System Operators	95008	12	*
Stationary Engineers	95032	48	0.1
All Other Plant And System Operators	95099	52	0.1
Truck Drivers, Heavy Or Tractor Trailer	97102	558	0.5
Truck Drivers, Light-Include Delivery And Route Workers	97105	203	0.2
Driver/Sales Workers	97117	275	0.3
All Other Motor Vehicle Operators	97199	39	*
Railroad Brake, Signal, And Switch Operators	97317	10	*
All Other Transportation And Related Workers	97899	24	*
Hoist And Winch Operators	97941	12	*
Crane And Tower Operators	97944	51	0.1
Industrial Truck And Tractor Operators	97947	684	0.6
Conveyor Operators And Tenders	97951	38	*
All Other Material Moving Equipment Operators	97999	73	0.1
Mechanic And Repairer Helpers	98102	96	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machine Feeders And Offbearers	98502	1,749	1.6
Freight, Stock, And Material Movers, Hand	98700	1,254	1.1
Hand Packers And Packagers	98902	1,806	1.6
Vehicle Washers And Equipment Cleaners	98905	39	*
All Other Helpers, Laborers, And Material Movers, Hand	98999	2,595	2.3

* Less than 0.05 percent

SUMMARY

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING

(SIC 24, 25, 32 - 39)

There were 72,221 wage and salary workers employed in the durable goods manufacturing sector during the occupational survey period of the second quarter of 1983. More than half of these jobs were in the production, construction, operating, maintenance and material handling occupational group. The next two largest occupational groups were the professional, paraprofessional and technical and clerical groups with 18 and 13 percent of the total employment in this sector respectively.

Assemblers and fabricators of all types, including machine, precision and electrical and electronic accounted for 10,378 workers or 14.4 percent of the total employment. Electrical and electronic engineers and first line supervisors of production workers accounted for 2,642 and 2,380 workers respectively.

THE TWENTY OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	CODE	OCCUPATIONAL TITLE	EMPLOYMENT	PERCENT OF TOTAL
1	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	3,397	4.7
2	93905	Electrical and Electronic Assemblers	2,646	3.7
3	22126	Electrical and Electronics Engineers	2,642	3.7
4	93114	Electrical and Electronic Equipment Assemblers-Precision	2,517	3.5
5	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	2,380	3.3
6	55100	Secretaries	2,170	3.0
7	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	2,062	2.9
8	19005	General Managers and Top Executives	1,893	2.6
9	83002	Precision Inspectors, Testers, and Graders	1,857	2.6
10	22505	Electrical and Electronic Engineering Technicians and Technologists	1,533	2.1
11	89108	Machinists	1,486	2.1
12	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	1,134	1.6
13	93902	Machine Assemblers	970	1.3
14	58008	Production, Planning, and Expediting Clerks	922	1.3
15	93111	Electromechanical Equipment Assemblers-Precision	848	1.2
16	15014	Industrial Production Managers	809	1.1
17	55338	Bookkeeping, Accounting and Auditing Clerks	796	1.1
18	85132	Maintenance Repairers, General Utility	791	1.1
19	22514	Drafters	782	1.1
20	98502	Machine Feeders and Offbearers	759	1.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		72,221	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	5,355	7.4
Financial Managers	13002	533	0.7
Personnel, Training, And Labor Relations Managers	13005	205	0.3
Purchasing Managers	13008	178	0.3
Marketing, Advertising, And Public Relations Managers	13011	522	0.7
Administrative Services Managers	13014	183	0.3
Industrial Production Managers	15014	809	1.1
General Managers And Top Executives	19005	1,893	2.6
All Other Managers And Administrators	19999	1,032	1.4
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	12,980	18.0
Accountants And Auditors	21114	755	1.0
Budget Analysts	21117	59	0.1
All Other Financial Specialists	21199	105	0.1
Purchasing Agents, Except Farm Products	21308	381	0.5
Personnel, Training, And Labor Relations Specialists	21511	205	0.3
Cost Estimators	21902	157	0.2
All other Management Support Workers	21999	584	0.8
Metallurgists And Metallurgical, Ceramic, And Materials Engineers	22105	76	0.1
Chemical Engineers	22114	38	0.1
Civil Engineers, Including Traffic	22121	12	*
Agricultural Engineers	22123	50	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Electrical And Electronics Engineers	22126	2,642	3.7
Industrial Engineers, Except Mining	22128	514	0.7
Safety Engineers, Except Mining	22132	43	0.1
Mechanical Engineers	22135	664	0.9
All other Engineers	22199	768	1.1
Civil Engineering Technicians And Technologists	22502	75	0.1
Electrical And Electronic Engineering Technicians And Technologists	22505	1,533	2.1
Industrial Engineering, Technicians And Technologists	22508	80	0.1
Mechanical Engineering Technicians And Technologists	22511	247	0.3
Drafters	22514	782	1.1
All other Engineering And Related Technicians And Technologists	22599	530	0.7
Physicists And Astronomers	24102	23	*
Chemists	24105	35	0.1
All Other Physical Scientists	24199	46	0.1
Chemical Technicians And Technologists, Except Health	24505	99	0.1
All Other Physical And Life Science Technicians And Technologists	24599	5	*
Systems Analysts, Electronic Data Processing	25102	253	0.4
Computer Programmers	25105	688	1.0
Computer Programmer Aides	25108	109	0.2
Programmers-Numerical, Tool, And Process Control	25111	74	0.1
Operations And Systems Researchers And Analysts, Except Computer	25302	31	*
Lawyers	28108	12	*

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Health Practitioners, Technologists, Technicians And Related Health Occupations	32000	71	0.1
All Other Health Professionals, Para-Professionals, And Technicians	32999	44	0.1
Writers And Editors	34002	32	*
Technical Writers	34005	263	0.4
Designers	34038	154	0.2
All Other Professional, Para-professional And Technical Workers	39999	741	1.0
SALES OCCUPATIONS	40000-49999	1,533	2.1
First Line Supervisors And Manager/Supervisors-Sales And Related Occupations	41002	153	0.2
Sales Engineers	49002	236	0.3
Sales Representatives, Scientific And Related Products And Services	49005	477	0.7
Other Sales Representatives	49008	485	0.7
All Other Sales And Related Workers	49999	182	0.2
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	9,373	13.0
First Line Supervisors And Manager/Supervisors-Clerical And Administrative Support Occupations	51002	243	0.3
Secretaries	55100	2,170	3.0
Stenographers	55302	83	0.1
Receptionists And Information Clerks	55305	63	0.1
Typists	55308	497	0.7
Typists, Word Processor	55311	90	0.1
Personnel Clerks	55314	93	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
File Clerks	55321	71	0.1
Order Clerks	55323	334	0.5
Procurement Clerks	55326	108	0.1
Statistical Clerks	55328	19	*
Bookkeeping, Accounting And Auditing Clerks	55338	796	1.1
Payroll And Timekeeping Clerks	55341	145	0.2
Billing, Cost, And Rate Clerks	55344	123	0.2
General Office Clerks	55347	684	1.0
Billing, Posting, And Calculating Machine Operators	56002	21	*
Computer Operators	56011	190	0.3
Peripheral EDP Equipment Operators	56014	52	0.1
Data Entry Keyers	56017	281	0.4
All Other Office Machine Operators	56099	63	0.1
Switchboard Operators	57102	96	0.1
Production, Planning, And Expediting Clerks	58008	922	1.3
Weighers, Measurers, Checkers, And Samplers-Recordkeeping	58017	18	*
Stock Clerks-Stockroom Warehouse Or Storage Yard	58023	1,134	1.6
Traffic, Shipping, And Receiving Clerks	58028	813	1.1
All other Material Recording, Scheduling, And Distributing Workers	58099	149	0.2
All Other Clerical And Administrative Support Workers	59999	115	0.2
SERVICES OCCUPATIONS	60000-69999	1,110	1.5
First Line Supervisors And Manager/Supervisors-Service	61000	107	0.1
Guards And Watch Guards	63047	340	0.5

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Food Beverage Preparation And Service Occupations	65000	15	*
Janitors And Cleaners	67005	640	0.9
All Other Cleaning And Building Service Workers, Except Private Households	67099	2	*
All Other Service Workers	69999	6	*
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	585	0.8
First Line Supervisors And Manager/Supervisors-Agricultural, Forestry, Fishing And Related Workers	72002	68	0.1
Fallers And Buckers	73002	150	0.2
Log Handling Equipment Operators	73008	100	0.1
Logging Tractor Operators	73011	167	0.2
All Other Timber Cutting And Related Logging Workers	73099	6	*
Forest And Conservation Workers	79002	13	*
Log Graders And Scalers	79008	48	0.1
Gardeners And Groundskeepers, Except Farm	79014	33	0.1
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	41,285	57.2
First Line Supervisors And Manager/Supervisors-Mechanics, Installers And Repairers	81002	96	0.1
First Line Supervisors And Manager/Supervisors-Production And Operating Workers	81008	2,380	3.3

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
First Line Supervisors And Manager/Supervisors-Transportation And Material Moving Machine And Vehicle Occupations	81011	36	0.1
First Line Supervisors And Manager/Supervisors-Helpers, Laborers, And Material Movers, Hand	81017	177	0.3
All Other First Line Supervisors And Manager/Supervisors-Production, Construction, Maintenance And Related	81099	24	*
Precision Inspectors, Testers, And Graders	83002	1,857	2.6
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	2,062	2.9
Machinery Maintenance Mechanics	85110	455	0.6
Millwrights	85123	103	0.1
Machinery Maintenance Workers	85128	78	0.1
Maintenance Repairers, General Utility	85132	791	1.1
Automotive Mechanics	85302	27	*
Bus And Truck Mechanics, And Diesel Engine Specialists	85311	12	*
Mobile Heavy Equipment Mechanics, Except Engines	85314	17	*
Data Processing Equipment Repairers	85705	65	0.1
Electronics Repairers, Commercial And Industrial Equipment	85717	15	*
Heating, Air Conditioning, And Refrigeration Mechanics And Installers	85902	14	*
Precision Instrument Repairers	85905	94	0.1
Riggers	85935	27	*
All Other Mechanics, Installers And Repairers	85999	66	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Carpenters	87102	339	0.5
Electricians	87202	194	0.3
Painters And Paperhangers	87402	42	0.1
Plumbers And Pipefitters	87502	46	0.1
All Other Construction Trades Workers	87899	75	0.1
Tool And Die Makers	89102	591	0.8
Precision Instrument Makers	89105	41	0.1
Machinists	89108	1,486	2.1
Tool Grinders, Filers, Sharpeners, And Other Precision Grinders	89111	196	0.3
Pattern And Model Makers, Metal	89114	42	0.1
Precision Layout Workers, Metal	89117	44	0.1
Sheet Metal Workers	89132	311	0.4
All Other Precision Metal Workers	89199	148	0.2
Precision Woodworkers	89300	30	*
Pattern And Model Makers-Wood	89302	32	*
Wood Machinists	89308	126	0.2
Cabinetmakers And Bench Carpenters	89311	426	0.6
Furniture Finishers	89314	72	0.1
All Other Precision Woodworkers	89399	46	0.1
All other Precision Printing Workers	89799	1	*
Precision Foundry Mold And Core Makers	89902	176	0.2
Precision Molders, Shapers, Casters, And Carvers, Except Jewelry And Foundry	89905	16	*
Precision Detail Design Decorators And Painters	89911	34	0.1
Precision Optical Goods Workers	89917	33	*
All Other Precision Workers	89999	153	0.2
Sawing Machine Tool Setters And Set-Up Operators, Metal And Plastic	91102	60	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Lathe And Turning Machine Tool Setters And Set-Up Operators, Metal And Plastic	91105	523	0.7
Drilling And Boring Machine Tool Setters And Set-Up Operators, Metal And Plastic	91108	299	0.4
Milling And Planing Machine Setters And Set-Up Operators, Metal And Plastic	91111	143	0.2
Grinding, Lapping, And Buffing Machine Tool Setters And Set-Up Operators, Metal And Plastic	91114	703	1.0
Machine Tool Cutting Operators And Tenders, Metal And Plastic	91117	721	1.0
Punching Machine Setters And Set-Up Operators, Metal And Plastic	91302	367	0.5
Press And Press Brake Machine Setters And Set-Up Operators, Metal And Plastic	91305	206	0.3
Shear And Slitter Machine Setters And Set-Up operators, Metal And Plastic	91308	65	0.1
Extruding And Drawing Machine Setters And Set-Up Operators, Metal And Plastic	91311	124	0.2
Rolling Machine Setters And Set-Up Operators, Metal And Plastic	91314	32	*
Machine Forming Operators And Tenders, Metal And Plastic	91321	528	0.7
Numerical Control Machine Tool Operators And Tenders, Metal And Plastic	91502	505	0.7
Combination Machine Tool Setters And Set-Up Operators, Metal And Plastic	91505	200	0.3

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Combination Machine Tool Operators And Tenders, Metal And Plastic	91508	385	0.5
Welding Machine Setters And Set-Up Operators	91702	163	0.2
Welding Machine Operators And Tenders	91705	42	0.1
Soldering And Brazing Machine Setters And Set-Up Operators	91708	54	0.1
Soldering And Brazing Machine Operators And Tenders	91711	95	0.1
Metal Fabricators, Structural Metal Products	91714	31	*
Plastic Molding And Casting Machine Operators And Tenders	91905	10	*
Metal Molding, Coremaking, And Casting Machine Setters And Set-Up Operators	91908	170	0.2
Metal Molding, Coremaking And Casting Machine Operators And Tenders	91911	56	0.1
Foundry Mold Assembly And Shakeout Workers	91914	43	0.1
Electrolytic Plating And Coating Machine Setters And Set-Up Operators, Metal And Plastic	91917	24	*
Electrolytic Plating And Coating Machine Operators And Tenders, Metal And Plastic	91921	114	0.2
Nonelectrolytic Plating And And Coating Machine Setters And Set-Up Operators, Metal And Plastic	91923	57	0.1
Nonelectrolytic Plating And Coating Machine Operators And Tenders, Metal And Plastic	91926	49	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Heating Equipment Setters And Set-Up Operators, Metal And Plastic	91928	11	*
Heat Treating, Annealing And Tempering Machine Operators And Tenders, Metal And Plastic	91932	71	0.1
Furnace Operators And Tenders	91935	135	0.2
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	72	0.1
All Other Metal And Plastic Machine Operators And Tenders	92198	779	1.1
Sawing Machine Setters And Set-Up Operators	92302	60	0.1
Head Sawyers	92305	95	0.1
Sawing Machine Operators And Tenders	92308	395	0.6
Woodworking Machine Setters And Set-Up Operators, Except Sawing	92311	234	0.3
Woodworking Machine Operators And Tenders, Except Sawing	92314	545	0.8
Printing Press Machine Setters And Set-Up Operators	92510	13	*
Screen Printing Machine Setters And Set-Up Operators	92524	37	0.1
All other Printing, Binding, And Related Machine Operators And Tenders	92549	49	0.1
Sewing Machine Operators, Non-Garment	92721	121	0.2
Electronic Semiconductor Processors	92902	36	0.1
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	31	*
Boiler Operators And Tenders	92926	30	*

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Cutting And Slicing Machine Setters And Set-Up Operators And Tenders	92941	23	*
Cutting And Slicing Machine Operators And Tenders	92944	192	0.3
Coating, Painting, And Spraying Machine Setters And Set-Up Operators	92951	128	0.2
Coating, Painting, And Spraying Machine Operators And Tenders	92953	241	0.3
Cementing And Gluing Machine Operators And Tenders	92956	23	*
Cleaning, Washing, And Pickling Equipment Operators And Tenders	92958	53	0.1
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	108	0.1
Extruding, Forming, Pressing, And Compacting Machine Setters, And Set-Up Operators	92968	26	*
Extruding, Forming, Pressing, And Compacting Machine Operators And Tenders	92971	238	0.3
Packaging And Filling Machine Operators And Tenders	92974	167	0.2
All Other Machine Setters And Set-Up operators	92997	94	0.1
All Other Machine Operators And Tenders	92998	1,110	1.5
Machine Builders And Other Precision Machine Assemblers	93105	502	0.7
Fitters, Structural Metal-Precision	93108	65	0.1
Electromechanical Equipment Assemblers-Precision	93111	848	1.2
Electrical And Electronic Equipment Assemblers-Precision	93114	2,517	3.5

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Watch, Clock, And Chronometer Assemblers, Adjusters, And Calibrators-Precision	93117	207	0.3
All Other Precision Assemblers, Metal	93197	56	0.1
Machine Assemblers	93902	970	1.3
Electrical And Electronic Assemblers	93905	2,646	3.7
Coil Winders, Tapers, And Finishers	93908	620	0.9
Welders And Cutters	93914	498	0.7
Solderers And Brazers	93917	230	0.3
Metal Pourers And Casters, Basic Shapes	93941	104	0.1
Molders And Casters, Hand	93944	37	0.1
Painting, Coating, And Decorating Workers, Hand	93947	113	0.2
Grinding And Polishing Workers, Hand	93953	520	0.7
Assemblers And Fabricators-Except Machine, Electrical, Electronic, And Precision	93956	3,397	4.7
All Other Hand Workers	93999	536	0.7
All Other Plant And System Operators	95099	17	*
Truck Drivers, Heavy Or Tractor Trailer	97102	387	0.5
Truck Drivers, Light-Include Delivery And Route Workers	97105	74	0.1
All Other Motor Vehicle Operators	97199	23	*
All Other Transportation And Related Workers	97899	14	*
Hoist And Winch Operators	97941	10	*
Crane And Tower Operators	97944	38	0.1
Industrial Truck And Tractor Operators	97947	379	0.5
All Other Material Moving Equipment Operators	97999	20	*
Mechanic And Repairer Helpers	98102	47	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machine Feeders And Offbearers	98502	759	1.1
Freight, Stock, And Material Movers, Hand	98700	612	0.8
Hand Packers And Packagers	98902	473	0.7
All Other Helpers, Laborers, And Material Movers, Hand	98999	584	0.8

* Less than 0.05 percent

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planning mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. This group does not include establishments producing furniture, musical instruments, toys, caskets, and playground equipment.

There were 4,708 wage and salary workers in this industry during the survey month of May 1983, an increase of 63 workers from the previous survey in 1980.

Our sample consisted of 130 units representing an employment of 3,977. Usable responses were received from 94 units or 72 percent of the units sampled. The reported employment was 3,124 or 79 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	92314	Woodworking Machine Operators and Tenders, Except Sawing	309
2	92308	Sawing Machine Operators and Tenders	283
3	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	225
4	19005	General Managers and Top Executives	222
5	87102	Carpenters	220
6	98502	Machine Feeders and Offbearers	216
7	89311	Cabinetmakers and Bench Carpenters	169
8	73011	Logging Tractor Operators	167
9	98902	Hand Packers and Packagers	154
10	73002	Fallers and Buckers	150

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	48.9
2	55338	Bookkeeping, Accounting and Auditing Clerks	33.7
3	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	28.2
	92308	Sawing Machine Operators and Tenders	28.2
5	55100	Secretaries	23.4
	92305	Head Sawyers	23.4

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		4,708	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	287	6.1				
Financial Managers	13002	26	0.6	19	31	21	5.5
Marketing, Advertising And Public Relations Managers	13011	12	0.3	24	15	9	2.7
Industrial Production Managers	15014	11	0.2	29	14	8	2.0
General Managers And Top Executives	19005	222	4.7	8	240	204	48.9
All Other Managers And Administrators	19999	16	0.3	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	83	1.8				
Accountants And Auditors	21114	32	0.7	26	40	24	9.6
All Other Financial Specialists	21119	4	0.1	NA	-	-	NA
All Other Management Support Workers	21999	13	0.3	NA	-	-	NA
All Other Engineers	22199	5	0.1	NA	-	-	NA
Drafters	22514	18	0.4	21	22	14	3.4
All Other Engineering And Related Technicians And Technologists	22599	3	*	NA	-	-	NA
All Other Life Scientists	24399	3	*	NA	-	-	NA
All Other Professional, Paraprofessional And Technical Workers	39999	5	0.1	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	111	2.4				
Sales Representatives, Scientific And Related Products And Services-Except Retail	49005	10	0.2	27	13	7	2.7
Other Sales Representatives, Except Retail	49008	83	1.8	21	100	66	13.1

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Sales And Related Workers	49999	18	0.4	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	398	8.4				
Secretaries	55100	78	1.7	12	87	69	23.4
Bookkeping, Accounting And Auditing Clerks	55338	114	2.4	10	126	102	33.7
General Office Clerks	55347	81	1.7	12	91	71	21.3
All Other Office Machine Operators	56099	3	*	NA	-	-	NA
Production, Planning And Expediting Clerks	58008	11	0.2	11	12	10	3.4
Traffic, Shipping And Receiving Clerks	58028	75	1.6	19	89	61	18.6
All other Material Recording, Scheduling And Distributing Workers	58099	16	0.3	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	20	0.5	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	98	2.1				
Guards And Watch Guards	63047	34	0.7	22	42	26	6.2
Janitors And Cleaners	67005	41	0.9	12	46	36	13.7
All Other Service Workers	69999	23	0.5	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	552	11.7				
First Line Supervisors-Agricultural, Forestry, Fishing And Related Occupations	72002	68	1.4	20	81	55	10.3
Fallers And Buckers	73002	150	3.2	23	184	116	8.9
Log Handling Equipment Operators	73008	100	2.1	17	117	83	17.9

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Logging Tractor Operators	73011	167	3.6	11	185	149	12.4
All Other Timber Cutting And Related Logging Workers	73099	6	0.1	NA	-	-	NA
Log Graders And Scalers	79008	48	1.0	14	55	41	15.8
All Other Agricultural, Forestry, Fishing And Related Workers	79999	13	0.3	NA	-	-	NA
PRODUCTION, CONSTRUCTION OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	3,179	67.5				
First Line Supervisors And Manager/Supervisiors-Production And Operating Workers	81008	105	2.2	11	116	94	28.2
First Line Supervisors And Manager/Supervisors-Helpers, Laborers And Material Movers, Hand	81017	13	0.3	42	18	8	2.0
Production Inspectors, Testers, Graders, Sorters, Samplers And Weighers	83005	125	2.7	14	143	107	16.5
Machinery Maintenance Mechanics	85110	50	1.1	14	57	43	14.4
Machinery Maintenance Workers	85128	20	0.4	26	25	15	5.5
Maintenance Repairers, General Utility	85132	61	1.3	10	67	55	16.5
All Other Mechanics, Installers And Repairers	85999	28	0.6	NA	-	-	NA
Carpenters	87102	220	4.7	16	255	185	8.2
Electricians	87202	12	0.3	23	15	9	2.7
All Other Construction Trades Workers	87899	75	1.6	NA	-	-	NA
All Other Precision Metal Workers	89199	10	0.2	NA	-	-	NA
Wood Machinists	89308	94	2.0	26	118	70	11.0
Cabinetmakers And Bench Carpenters	89311	169	3.6	17	198	140	8.2
Furniture Finishers	89314	52	1.1	25	65	39	2.0
All Other Precision Woodworkers	89399	10	0.2	NA	-	-	NA

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	16	0.3	NA	-	-	NA
Sawing Machine Setters And Set-Up Operators	92302	36	0.8	21	44	28	5.5
Head Sawyers	92305	95	2.0	8	103	87	23.4
Sawing Machine Operators And Tenders	92308	283	6.0	10	311	255	28.2
Woodworking Machine Setters And Set-Up Operators, Except Sawing	92311	138	2.9	12	155	121	13.1
Woodworking Machine Operators And Tenders, Except Sawing	92314	309	6.6	8	333	285	17.2
Furnace, Kiln, Oven, Drier Or Kettle Operators	92923	14	0.3	17	16	12	6.8
Coating, Painting, Spraying Machine Setters And Set-Up Operators	92951	15	0.3	20	18	12	2.7
Coating, Painting, Spraying Machine Operators And Tenders	92953	32	0.7	19	38	26	6.8
Packaging And Filling Machine Operators And Tenders	92974	15	0.3	19	18	12	2.7
All Other Machine Operators And Tenders	92998	59	1.3	NA	-	-	NA
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	225	4.8	15	259	191	6.2
All Other Hand Workers	93999	37	0.8	NA	-	-	NA
Truck Drivers Heavy Or Tractor Trailer	97102	151	3.2	14	172	130	27.5
All Other Motor Vheicle Operators	97199	1	*	NA	-	-	NA
All Other Transportation And Related Workers	97899	4	*	NA	-	-	NA
Industrial Truck And Tractor Operators	97947	83	1.7	8	90	76	19.3
Machine Feeders And Offbearers	98502	216	4.6	14	245	187	15.8
Freight, Stock And Material Movers, Hand	98700	136	2.8	13	154	118	10.3
Hand Packers And Packagers	98902	154	3.3	12	173	135	12.4
All other Helpers, Laborers, And Material Movers, Hand	98999	116	2.5	NA	-	-	NA

* Less than 0.5 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Administrative Services Managers
- Automotive Mechanics
- Boiler Operators, Low Pressure
- Bus and Truck Mechanics, and Diesel Specialists
- Carpet Cutters, Diagrammers and Seamers
- Computer Programmers
- Computer Programmer Aides
- Construction Trades and Extractive Worker Helpers
- Cost Estimaters
- Crushing, Grinding, Mixing and Blending Machine Operators and Tenders
- Cutting and Slicing Machine Operators and Tenders
- Data Entry Keyers
- Drilling and Boring Machine Tool Setters and Set-Up Operators, Metal and Plastic
- Extruding, Forming, Pressing and Compacting Machine Operators and Tenders
- First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
- First Line Supervisors and Manager/Supervisors-Transportation and Material Moving Machine and Vehicle Occupations
- First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations
- First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
- Glaziers, Manufacturing
- Grinding and Polishing Workers, Hand
- Industrial Engineers, Except Safety
- Interior Designers
- Installers and Repairers-Manufactured Buildings, Mobile Homes and Travel Trailers
- Machinists
- Mechanical Engineers
- Mechanics and Repairer Helpers
- Mobile Heavy Equipment Mechanics, Except Engines
- Order Clerks
- Painters and Paperhangers
- Painting, Coating, and Decorating Workers, Hand
- Pattern and Model Makers, Wood
- Payroll and Timekeeping Clerks
- Personnel, Training and Labor Relations Managers
- Personnel, Training and Labor Relations Specialists
- Purchasing Agents
- Purchasing Managers
- Receptionists and Information Clerks
- Stock Clerks-Stockroom, Warehouse or Storage Yard
- Switchboard Operators
- Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
- Truck Drivers, Light
- Typists

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
FURNITURE AND FIXTURES

(SIC 25)

This major group includes establishments primarily engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures.

During the survey month of May 1983 there were 1,365 wage and salary workers in the furniture and fixtures industry, a reduction of 516 workers from the previous survey in 1980.

Our sample consisted of 31 units representing an employment of 1,399. Usable responses were received from 22 units or 71 percent of the units sampled. The reported employment was 1,033 or 74 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	102
2	89311	Cabinetmakers and Bench Carpenters	99
3	92314	Woodworking Machine Operators and Tenders, Except Sawing	88
4	98502	Machine Feeders and Offbearers	66
5	92308	Sawing Machine Operators and Tenders	64
6	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	61
7	92311	Woodworking Machine Setters and Set-Up Operators, Except Sawing	45
8	58028	Traffic, Shipping, and Receiving Clerks	43
9	92953	Coating, Painting, and Spraying Machine Operators and Tenders	37
10	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	32

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	51.9
2	19005	General Managers and Top Executives	48.1
3	55100	Secretaries	40.7
4	85132	Maintenance Repairers, General Utility	37.0
	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic, and Precision	37.0

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		1,365	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	54	4.0				
General Managers And Top Executives	19005	26	1.9	12	29	23	48.1
All Other Managers And Administrators	19999	28	2.1	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	50	3.7				
All Other Financial Specialists	21199	4	0.3	NA	-	-	NA
All Other Management Support Workers	21999	14	1.0	NA	-	-	NA
All Other Engineers	22199	5	0.4	NA	-	-	NA
Drafters	22514	13	1.0	8	6	4	NA
All Other Engineering And Related Technicians And Technologists	22599	2	0.1	NA	-	-	NA
All Other Professional, Paraprofessional & Technical Workers	39999	12	0.9	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	38	2.8	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	222	16.3				
Secretaries	55100	19	1.4	11	21	17	40.7
General Office Clerks	55347	15	1.1	12	17	13	25.9
All Other Office Machine Operators	56099	19	1.4	NA	-	-	NA
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	32	2.3	27	41	23	11.1
Traffic, Shipping, And Receiving Clerks	58028	43	3.2	24	53	33	33.3
All Other Material Recording, Scheduling and Distribution Workers	58099	13	1.0	NA	-	-	NA

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Clerical And Administrative Support Workers	59999	81	5.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	32	2.3	NA	-	-	NA
PRODUCTION, CONSTRUCTION, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	969	70.9				
First Line Supervisors And Manager/Supervisors Production And Operating Workers	81008	61	4.5	7	65	57	51.9
Maintenance Repairers, General Utility	85132	21	1.5	8	23	19	37.0
All Other Mechanics, Installers And Repairers	85999	9	0.6	NA	-	-	NA
All Other Construction Workers	87899	3	0.2	NA	-	-	NA
All Other Precision Metal Workers	89199	13	1.0	NA	-	-	NA
Wood Machinists	89308	22	1.6	17	26	18	22.2
Cabinetmakers And Bench Carpenters	89311	99	7.3	19	118	80	33.3
All Other Precision Workers	89399	46	3.4	NA	-	-	NA
All Other Precision Workers	89999	12	0.9	NA	-	-	NA
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	33	2.4	NA	-	-	NA
All Other Metal And Plastic Machine Operators And Tenders	92198	8	0.6	NA	-	-	NA
Sawing Machine Operators And Tenders	92308	64	4.7	13	72	56	33.3
Woodworking Machine Setters And Set-Up Operators, Except Sawing	92311	45	3.3	27	57	33	25.9

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Woodworking Machine Operators And Tenders, Except Sawing	92314	88	6.4	18	103	73	22.2
Coating, Painting, And Spraying Machine Operators And Tenders	92953	37	2.7	26	47	27	25.9
Cementing And Gluing Machine Operators And Tenders	92956	16	1.2	25	20	12	22.2
All other Machine Setters And Set-Up Operators	92997	47	3.4	NA	-	-	NA
All Other Machine Operators And Tenders	92998	32	2.3	NA	-	-	NA
Grinding, And Polishing Workers, Hand	93953	28	2.1	33	37	19	11.1
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	102	7.5	18	121	83	37.0
All Other Hand Workers	93999	22	1.6	NA	-	-	NA
Truck Drivers, Heavy Or Tractor Trailer	97102	10	0.7	13	11	9	18.5
All Other Motor Vehicle Operators	97199	3	0.2	NA	-	-	NA
All Other Transportation And Related Workers	97899	11	0.8	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	5	0.4	NA	-	-	NA
Machine Feeders And Offbearers	98502	66	4.8	23	81	51	14.8
Freight, Stock, And Material Movers, Hand	98700	22	1.6	15	25	19	14.8
Hand Packers And Packagers	98902	22	1.6	20	26	18	11.1
All Other Helpers, Laborers, And Material Movers, Hand	98999	22	1.6	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Accountants and Auditors
Administrative Service Managers
Billing, Cost and Rate Clerks
Boiler Operators, Low Pressure
Bookkeeping, Accounting and and Auditing Clerks
Carpenters
Coating, Painting, and Spraying Machine Setters and Set-Up Operators
Computer Programmer Aides
Cost Estimators
Data Entry Keyers
Designers
Drilling and Boring Machine Tool Setters and Set-Up Operators, Metal and Plastic
Electricians
File Clerks
Financial Managers
First Line Supervisors and Manager/ Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/ Supervisors-Transportation and Material Moving Machine and Vehicle Occupations
First Line Supervisors and Manager/ Supervisors-Helpers, Laborers, and Material Movers, Hand
Guards and Watch Guards
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Industrial Production Managers
Industrial Truck and Tractor Operators
Machine Forming Operators and Tenders, Metal and Plastic
Machinery Maintenance Mechanics
Marketing, Advertising and Public Relations Managers
Numerical Control Machine Tool Operators and Tenders, Metal and Plastic
Order Clerks
Packaging and Filling Machine Operators and Tenders
Pattern and Model Makers, Wood
Payroll and Timekeeping Clerks
Personnel, Training, and Labor Relations Managers
Personnel, Training, and Labor Relations Specialists
Precision Inspectors, Testers, and and Graders
Procurement Clerks
Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers
Press, and Press Brake Machine Setters and Set-Up Operators
Punching Machine Setters and Set-Up Operators, Metal and Plastic
Purchasing Agents
Purchasing Managers
Receptionists and Information Clerks
Sawing Machine Setters and Set-Up Operators, Metal and Plastic
Sewing Machine Operators, Non-garment
Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic
Sheet Metal Workers
Switchboard Operators
Systems Analysts
Textile Machine Operators and Tenders
Tool Grinders, Filers, Sharpeners and Other Precision Grinders
Tool and Die Makers
Truck Drivers, Light
Typists
Welders and Cutters
Welding Machine Setters and Set-Up Operators
Wood Machinists

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
STONE, CLAY, GLASS AND CONCRETE PRODUCTS

(SIC 32)

This major group includes establishments primarily engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken from the earth in the form of stone, clay and sand.

Firms in this industry during the survey month of May 1983, employed 2,394 wage and salary workers, a decrease of 545 workers or 19 percent from a similar survey taken three years earlier.

Our sample consisted of 41 units representing an employment of 2,460. Usable responses were received from 32 units or 78 percent of the units sampled. The reported employment was 2,206 or 90 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	92971	Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders	218
2	92944	Cutting and Slicing Machine Operators and Tenders	183
3	97102	Truck Drivers, Heavy or Tractor Trailer	159
4	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	134
5	81008	First Line Supervisors and Manager/ Supevisors-Production and Operating Workers	119
6	19005	General Managers and Top Executives	105
7	49005	Sales Representatives, Scientific and Related Products and Services	92
8	98902	Hand Packers and Packagers	85
9	85132	Maintenance Repairers, General Utility	70
10	55100	Secretaries	67

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	67.5
2	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	57.5
3	55100	Secretaries	50.0
4	55347	General Office Clerks	42.5
5	85132	Maintenance Repairers, General Utility	40.0

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		2,394	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	155	6.5				
General Managers And Top Executives	19005	105	4.4	5	110	100	67.5
All Other Managers And Administrators	19999	50	2.1	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	167	7.0				
Accountants & Auditors	21114	15	0.6	10	17	13	15.0
All Other Financial Specialists	21199	2	0.1	NA	-	-	NA
All Other Management Support Workers	21999	8	0.3	NA	-	-	NA
Mechanical Engineers	22135	15	0.6	0	15	15	12.5
All Other Engineers	22199	14	0.6	NA	-	-	NA
Drafters	22514	32	1.3	7	34	30	22.5
All Other Engineering Technicians & Technologists	22599	38	1.6	NA	-	-	NA
All Other Physical Scientists	24199	5	0.3	NA	-	-	NA
All Other Physical And Life Science Technicians & Technologists	24599	14	0.6	NA	-	-	NA
All Other Professional, Paraprofessional & Technical Workers	39999	24	1.0	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	152	6.3				
Sales Representatives, Scientific And Related Products, & Services	49005	92	3.8	15	106	78	10.0
Other Sales Representatives	49008	30	1.3	17	35	25	25.0
All Other Sales And Related Workers	49999	30	1.3	NA	-	-	NA

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	239	10.0				
Secretaries	55100	67	2.8	4	69	65	50.0
Bookkeeping, Accounting, And Auditing Clerks	55338	28	1.2	18	33	23	37.5
Payroll & Timekeeping Clerks	55341	11	0.5	C	11	11	7.5
General Office Clerks	55347	32	1.3	6	34	30	42.5
All Other Office Machine Operators	56099	10	0.4	NA	-	-	NA
Production, Planning, & Expediting Clerks	58008	11	0.5	6	12	10	10.0
Stock Clerks-Stockroom Warehouse Or Storage Yard	58023	28	1.2	8	30	26	7.5
Traffic, Shipping, And Receiving Clerks	58028	23	1.0	0	23	23	25.0
All Other Material Recording Scheduling & Distributing Workers	58099	9	0.3	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	20	0.8	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	42	1.7				
Janitors And Cleaners	67005	32	1.3	2	33	31	22.5
All Other Service Workers	69999	10	0.4	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	4	0.2	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	1,635	68.3				
First Line Supervisors, And Manager/Supervisors-Production And Operating Workers	81008	119	5.0	4	124	114	57.5
Production Inspectors, Tenders, Graders, Sorters, Samplers, & Weighers	83005	134	5.6	3	138	130	22.5

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Machinery Maintenance Mechanics	35110	26	1.1	5	27	25	15.0
Maintenance Repairers, General Utility	85132	70	2.9	15	81	59	40.0
Automotive Mechanics	85302	15	0.6	23	18	12	15.0
All Other Mechanics, Installers, And Repairers	85999	7	0.3	NA	-	-	NA
All Other Construction Trade Workers	87899	20	0.8	NA	-	-	NA
All Other Precision Metal Workers	89199	6	0.3	NA	-	-	NA
All Other Precision Workers	89999	33	1.4	NA	-	-	NA
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	17	0.7	22	21	13	12.5
Cutting And Slicing Machine Setters And Set-Up Operators	92941	19	0.8	0	19	19	7.5
Cutting And Slicing Machine Operators And Tenders	92944	183	7.6	1	185	181	17.5
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	16	0.7	6	17	15	17.5
Extruding, Forming, Pressing, And Compacting Machine Operators & Tenders	92971	218	9.1	4	227	209	22.5
All Other Machine Setters And Set-Up Operators	92997	56	2.3	NA	-	-	NA
All Other Machine Operators And Tenders	92998	102	4.3	NA	-	-	NA
All Other Hand Workers	93999	133	5.6	NA	-	-	NA
Truck Drivers, Heavy Or Tractor Trailer	97102	159	6.6	20	191	127	35.0
All Other Motor Vehicle Operators	97199	4	0.2	NA	-	-	NA
All Other Transportation And Related Workers	97899	3	0.1	NA	-	-	NA
Crane And Tower Operators	97944	21	0.8	22	26	16	15.0
Industrial Truck And Tractor Operators	97947	60	2.5	12	67	53	32.5
All Other Material Moving Equipment Operators	97999	11	0.5	NA	-	-	NA
Freight, Stock, And Material Movers, Hand	98700	25	1.0	20	30	20	17.5
Hand Packers And Packagers	98902	85	3.6	4	88	82	7.5
All Other Helpers, Laborers, And Material Movers, Hand	98999	93	3.9	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Automotive Mechanics
Budget Analysts
Billing Cost and Rate Clerks
Carpenters
Chemists
Chemical Technicians and Technologists, Except Health
Chemical Engineers
Civil Engineers
Computer Programmers
Computer Operators
Concrete and Terrazzo Finishers
Cost Estimators
Conveyor Operators and Tenders
Data Entry Keyers
Designers
Dispatchers
Electrical and Electronic Engineers
Electrical and Electronic Engineering Technicians and Technologists
Electricians
Extractive and Related Workers-Including Blasters
Extruding, Forming, Pressing and Compacting Machine Setters and Set-Up Operators
Financial Managers
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/Supervisors-Service
Guards and Watch Guards
Gardeners and Groundskeepers, Except Farm
Hand Cutters and Trimmers
Hand Grinders and Polishing Workers
Hand Molders and Casters
Health Practitioners, Technologists, Technicians and Related Health Occupations
Hoist and Winch Operators
Industrial Production Managers
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Machinists
Machine Tool Cutting Operators and Tenders, Metal and Plastic
Machine Feeder and Offbearers
Marketing Advertising and Public Relations Managers
Mechanic and Repairer Helpers
Mechanical Engineering Technicians and Technologists
Mining, Quarrying, and Oil and Gas Well Drilling Managers
Order Clerks
Packaging and Filling Machine Operators
Painters and Paperhangers
Painting, Coating, and Decorating Workers, Hand
Personnel, Training, and Labor Relations Managers
Personnel Clerks
Precision Inspectors, Testers and Graders
Precision Molders, Shapers, Casters and Carvers, Except Jewelry and Foundry
Precision Patternmakers, Model Makers, Layout Workers and Cutters
Punching Machine Setters and Set-Up Operators, metal and plastics
Purchasing Agents
Purchasing Managers
Receptionists and Information Clerks
Sales Engineers
Screen Printing Machine Setters and Set-Up Operators
Textile Machine Operators
Tool Grinders, Filers, Sharpeners Other Precision Grinders
Truck Drivers, Light
Typists
Welders and Cutters

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
NONFERROUS FOUNDRIES (CASTINGS)

(SIC 336)

This group includes establishments primarily engaged in manufacturing castings and die castings of aluminum, brass, bronze and other nonferrous metals and alloys. These establishments generally operate on a job or order basis, manufacturing castings for sales to others or for interplant transfer.

During the survey month of April 1983 there were 1,120 wage and salary workers employed in the manufacturing of nonferrous castings. This represents an increase of 66 workers (or 6 percent) from a similar survey conducted three years earlier.

Our sample consisted of 15 units representing an employment of 1,207. Usable responses were received from 10 units or 67 percent of the units sampled. The reported employment was 892 or 74 percent of the employment in the sample.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	91114	Grinding, Lapping, and Buffing Machine Tool Setters And Set-Up Operators, Metal and Plastic	57
2	92965	Crushing, Grinding, Mixing and Blending Machine Operators and Tenders	53
	93953	Grinding and Polishing Workers, Hand	53
4	89902	Precision Foundry Mold and Core-Makers	42
5	81008	First Line Supervisors and Manager/ Supervisors Production and Operating Workers	38
6	93941	Metal Pourers and Casters, Basic Shapes	35
7	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	32
8	89114	Pattern and Model Makers-Metal	31
	91914	Foundry Mold Assembly and Shakeout Workers	31
10	51002	First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	30
	91508	Combination Machine Tool Operators and Tenders, Metal and Plastics	30

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	100.0
2	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	80.0
3	85132	Maintenance Repairers, General Utility	70.0
4	89102	Tool and Die Makers	60.0
	91114	Grinding, Lapping, and Buffing Machine Tool Setters and Set-Up Operators, Metal and Plastic	60.0
	93941	Metal Pourers and Casters, Basic Shapes	60.0

STAFFING PATTERNS

NONFERROUS FOUNDRIES (CASTINGS)

(SIC 336)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		1,120	100.0				
MANAGERS AND ADMINISTRATORS	10000- 19999	59	5.3				
General Managers And Top Executives	19005	22	2.0	17	26	18	100.0
All Other Managers And Administrators	19999	37	3.3	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000- 39999	82	7.3				
All Other Financial Specialists	21199	1	0.1	NA	-	-	NA
All Other Management Support Workers	21999	11	1.0	NA	-	-	NA
All Other Engineers	22199	6	0.5	NA	-	-	NA
All other Engineering And Related Technicians And Technologists	22599	31	2.8	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	33	2.9	NA	-	-	NA
SALES OCCUPATIONS	40000- 49000	15	1.3	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000- 59999	104	9.3				
First Line Supervisors And Manager/Supervisors- Clerical Support Occupations	51002	30	2.7	12	34	26	30.0
Secretaries	55100	11	1.0	13	12	10	40.0
All Other Office Machine Operators	56099	6	0.5	NA	-	-	NA
Traffic, Shipping, And Receiving Clerks	58028	13	1.2	15	15	11	40.0
All Other Material Recording, Scheduling, And Distributing Workers	58099	12	1.1	NA	-	-	NA

STAFFING PATTERNS

NONFERROUS FOUNDRIES (CASTINGS)

(SIC 336)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Clerical And Administrative Support Workers	59999	32	2.8	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	25	2.2	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	835	74.6				
First Line Supervisors And Manager/Supervisors-Production And Operating Workers	81008	38	3.4	23	47	29	80.0
Precision Inspectors, Testers, And Graders	83002	28	2.5	13	32	24	40.0
Maintenance Repairers, General Utility	85132	26	2.3	8	28	24	70.0
All Other Mechanics, Installers And Repairers	85999	13	1.2	NA	-	-	NA
All Other Construction Trades Workers	87899	6	0.5	NA	-	-	NA
Tool And Die Makers	89102	20	1.7	13	23	17	60.0
Pattern And Model Makers-Metal	89114	31	2.8	34	41	21	50.0
All Other Precision Metal Workers	89199	28	2.5	NA	-	-	NA
Precision Foundry Mold And Core Makers	89902	42	3.8	12	47	37	50.0
All Other Precision Workers	89999	39	3.5	NA	-	-	NA
Grinding, Lapping, And Buffing Machine Tool Setters & Set-Up Operators, Metal And Plastic	91114	57	5.1	23	70	44	60.0
Combination Machine Tool Operators And Tenders, Metal And Plastic	91508	30	2.7	35	41	19	30.0
Metal Molding, Coremaking, And Casting Machine Setters And Set-Up Operators	91908	20	1.8	33	27	13	40.0
Foundry Mold Assembly And Shakeout Workers	91914	31	2.8	20	37	25	30.0

STAFFING PATTERNS

NONFERROUS FOUNDRIES (CASTINGS)

(SIC 336)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Furnace Operators And Tenders	91935	16	1.4	25	20	12	50.0
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	32	2.9	NA	-	-	NA
All Other Metal And Plastic Machine Operators And Tenders	92198	42	3.8	NA	-	-	NA
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	53	4.7	20	64	42	40.0
All Other Machine Operators And Tenders	92998	5	0.4	NA	-	-	NA
Metal Pourers And Casters, Basic Shapes	93941	35	3.1	15	40	30	60.0
Grinding And Polishing Workers, Hand	93953	53	4.7	17	62	44	40.0
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	32	2.9	34	43	21	40.0
All Other Hand Workers	93999	140	12.5	NA	-	-	NA
All Other Motor Vehicle Operators	97199	2	0.2	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	1	0.1	NA	-	-	NA
All Other Helpers, Laborers, And Material Movers, Hand	98999	15	1.3	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 35 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Accountants and Auditors
Administrative Services Managers
Billing, Cost and Rate Clerks
Billing, Posting, and Calculating Machine Operators
Bookkeeping, Accounting and Auditing Clerks
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Coating, Painting, and Spraying Machine Operators and Tenders
Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic
Computer Operators
Computer Programmers
Computer Programmer Aides
Cost Estimators
Data Entry Keyers
Drafters
Drilling Machine Setters and Set-Up Operators, Metal and Plastic
Electrical and Electronic Engineers
Electrical and Electronic Technicians and Technologists
Electricians
Financial Managers
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/Supervisors-Service
Freight, Stock, and Material Movers, Hand
General Office Clerks
Guards and Watch Guards
Industrial Engineers, Except Safety
Industrial Production Managers
Industrial Truck and Tractor Operators
Janitors and Cleaners
Lathe Machine Setters and Set-Up Operators, Metal and Plastic
Machinery Maintenance Mechanics
Machinery Maintenance Workers
Machinists
Machine Tool Cutting Operators
Marketing, Advertising, and Public Relations Managers
Mechanical Engineers
Metallurgists and Metallurgical, Ceramic and Materials Engineers
Metal Molding, Coremaking, and Casting Machine Operators
Milling Machine Setters and Set-Up Operators, Metal and Plastic
Millwrights
Numerical Control Machine Tool Operators and Tenders, Metal and Plastic
Order Clerks
Pattern and Model Makers, Wood
Personnel Clerks
Personnel, Training and Labor Relations Managers
Personnel, Training and Labor Relations Specialists
Precision Layout Workers, Metal and Plastic
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers
Production, Planning and Expediting Clerks
Programmers-Numerical, Tool, and Process Control
Punching Machine Setters and Set-Up Operators, Metal and Plastics
Purchasing Agents
Purchasing Managers
Receptionists and Information Clerks
Sales Engineers
Sales Representatives, Scientific and Related Products and Services
Sawing Machine Setters and Set-Up Operators, Metal and Plastic
Sheet Metal Workers
Soldering and Brazing Machine Setters and Set-Up Operators
Solderers and Brazers
Statistical Clerks
Stock Clerks, Stockroom, Warehouse or Storage Yard
Switchboard Operators
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
Truck Drivers, Heavy
Truck Drivers, Light
Welding Machine Setters and Set-Up Operators
Welding Machine Operators and Tenders

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

This major group includes establishments primarily engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, hand tools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance (except vehicles and guided missiles), and a variety of metal and wire products not elsewhere classified.

During the survey month of June 1983 there were 6,986 wage and salary workers, a decrease of 427 workers or 6 percent over a similar survey taken three years earlier.

Our sample consisted of 95 units representing an employment of 6,406. Usable responses were received from 71 units or 75 percent of the units sampled. The reported employment was 5,234 or 82 percent of the employment in the sample.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	93956	Assemblers and Fabricators-Except, Electrical, Electronic, and Precision	482
2	91508	Combination Machine Tool Operators and Tenders, Metal and Plastic	302
3	91321	Machine Forming Operators and Tenders, Metal and Plastic	295
4	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	274
5	91302	Punching Machine Setters and Set-Up Operators, Metal and Plastic	233
6	19005	General Managers and Top Executives	203
7	93953	Grinding and Polishing Workers, Hand	197
8	91117	Machine Tool Cutting Operators and Tenders, Metal and Plastic	194
9	89102	Tool and Die Makers	158
10	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	153
	89132	Sheet Metal Workers	153

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	81.6
2	81008	First Line Supervisors and Manager/Supervisors- Production and Operating Workers	59.2
3	55100	Secretaries	51.3
4	55338	Bookkeeping, Accounting, and Auditing Clerks	47.4
5	55347	General Office Clerks	40.8

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		6,986	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	368	5.3				
Financial Managers	13002	17	0.2	22	21	13	11.8
Personnel, Training & Labor Relations Managers	13005	13	0.2	14	15	11	10.5
Marketing, Advertising, and Public Relations Managers	13011	11	0.2	22	13	9	6.6
Administrative Services Managers	13014	20	0.3	23	25	15	11.8
Industrial Production Managers	15014	46	0.7	49	69	23	11.8
General Managers and Top Executives	19005	203	2.9	8	220	186	81.6
All Other Managers and Administrators	19999	58	0.8	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL & TECHNICAL OCCUPATIONS	20000-39999	402	5.8				
Accountants & Auditors	21114	41	0.6	18	48	34	19.7
All Other Financial Specialists	21199	3	*	NA	-	-	NA
Purchasing Agents	21308	12	0.2	24	15	9	9.2
Cost Estimators	21902	36	0.5	30	47	25	9.2
All Other Management Support Workers	21999	18	0.3	NA	-	-	NA
Industrial Engineers, Except Safety	22128	14	0.2	46	20	8	6.6
Mechanical Engineers	22135	128	1.8	27	162	94	32.9
All Other Engineers	22199	20	0.3	NA	-	-	NA
Drafters	22514	64	0.9	29	82	46	19.7
All Other Engineering & Related Technicians & Technologists	22599	27	0.4	NA	-	-	NA
All Other Professional, Paraprofessional	39999	39	0.6	NA	-	-	NA

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
SALES OCCUPATIONS	40000-49999	137	2.0				
Sales Representatives, Scientific and Related Prods. & Services	49005	29	0.4	26	37	21	11.8
Other Sales Representatives	49008	88	1.3	21	107	69	26.3
All Other Sales and Related Workers	49999	20	0.3	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	571	8.2				
Secretaries	55100	104	1.5	10	115	93	51.3
Bookeeping, Accounting, and Auditing Clerks	55338	69	1.0	13	78	60	47.4
Payroll & Timekeeping Clerks	55341	14	0.2	25	17	11	9.2
General Office Clerks	55347	100	1.4	16	116	84	40.8
Data Entry Keyers	56017	10	0.2	23	12	8	3.9
All Other Office Machine Operators	56099	9	0.1	NA	-	-	NA
Production, Planning, & Expediting Clerks	58008	47	0.7	12	53	41	9.2
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	40	0.6	19	48	32	10.5
Traffic, Shipping, and Receiving Clerks	58028	36	0.5	7	38	34	10.5
All Other Material Recording Scheduling & Dist. Workers	58099	37	0.5	NA	-	-	NA
All Other Clerical & Administrative Support Workers	59999	105	1.5	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	96	1.4				
Janitors & Cleaners	67005	83	1.2	7	89	77	32.9
All Other Service Workers	69999	13	0.2	NA	-	-	NA

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000 79999	2	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000 98999	5,410	77.4				
First Line Supervisors and Manager/Supervisors-Production and Operating Workers	81008	274	3.9	4	285	263	59.2
Precision Inspectors, Testers, and Graders	83002	90	1.3	23	111	69	17.1
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	83005	153	2.2	9	167	139	31.6
Machinery Maintenance Mechanics	85110	54	0.8	22	66	42	15.8
Maintenance Repairers, General Utility	85132	101	1.4	14	115	87	30.3
All Other mechanics, Installers and Repairers	85999	30	0.4	NA	-	-	NA
Electricians	87202	13	0.2	12	15	11	5.3
All other Construction Trades Workers	87899	21	0.3	NA	-	-	NA
Tool and Die Makers	89102	158	2.3	12	176	140	31.6
Machinists	89108	131	1.9	20	157	106	26.3
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders	89111	72	1.0	27	91	53	17.1
Sheet Metal Workers	89132	153	2.2	42	217	89	11.8
All Other Precision Metal Workers	89199	90	1.3	NA	-	-	NA
All Other Precision Workers	89999	46	0.7	NA	-	-	NA
Sawing Machine Tool Setters and Set-Up Operators, Metal and Plastic	91102	20	0.3	39	28	12	6.6

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Lathe and Turning Machine Tool Setters & Set-Up Operators, Metal & Plastic	91105	55	0.8	16	64	46	13.2
Drilling & Boring Machine Tool Setters & Set-Up Operators, Metal & Plastic	91108	68	1.0	17	80	56	7.9
Grinding, Lapping, & Buffing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91114	151	2.2	10	166	136	10.5
Machine Tool Cutting Operators & Tenders, Metal & Plastic	91117	194	2.8	22	237	151	15.8
Punching Machine Setters & Set-Up Operators, Metal & Plastic							
Press & Press Brake Machine Setters & Set-Up Operators, Metal & Plastic	91305	139	2.0	11	154	124	15.8
Shear & Slitter Machine Setters & Set-Up Operators, Metal & Plastic	91308	35	0.5	22	43	27	14.5
Machine Forming Operators & Tenders, Metal & Plastic	91321	295	4.2	14	335	255	19.7
Numerical Control Machine Tool Operators & Tenders, Metal & Plastic	91502	42	0.6	36	57	27	7.9
Combination Machine Tool Setters & Set-Up Operators, Metal & Plastic	91505	37	0.5	41	52	22	6.6
Combination Machine Tool Operators & Tenders, Metal & Plastic	91508	308	4.3	2	308	296	3.9
Welding Machine Setters and Set-Up Operators	91702	78	1.1	32	103	53	17.1
Welding Machine Operators and Tenders	91705	28	0.4	26	35	21	7.9
Soldering & Brazing Machine Operators & Tenders	91711	18	0.3	23	22	14	6.6
Electrolytic Plating & Coating Machine Operators & Tenders, Metal and Plastic	91921	36	0.5	29	47	25	9.2

STAFFING PATTERNS

FABRICATED METAL PRODUCTS,

EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Nonelectrolytic Plating & Coating Machine Operators & Tenders, Metal and Plastic	91926	14	0.2	27	18	10	3.9
Heat Treating, Annealing, & Tempering Machine Operators & Tenders, Metal & Plastic	91932	18	0.3	6	19	17	5.3
All Other Metal & Plastic Machine Setters, & Set-Up Operators	92197	164	2.3	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	212	3.0	NA	-	-	NA
Coating, Painting, & Spraying Machine Setters & Set-Up Operators	92951	49	0.7	33	65	33	10.5
Coating, Painting, & Spraying Machine Operators and Tenders	92953	64	0.9	46	93	35	6.6
All Other Operators and Tenders	92998	77	1.1	NA	-	-	NA
Fitters, Structural Metal-Precision	93108	65	0.9	30	84	46	7.9
All Other Precision Assemblers, Metal	93197	22	0.3	NA	-	-	NA
Welders and Cutters	93914	128	1.8	26	161	95	6.6
Grinding and Polishing Workers Hand	939	197	2.8	18	232	162	23.7
Assemblers and Fabricators-Except Machine, Electrical, Electronic, and Precision	93956	482	6.9	11	535	429	35.5
All Other Hand Workers	93999	44	0.6	NA	-	-	NA
Truck Drivers, Heavy or Tractor Trailer	97102	20	0.3	48	30	10	5.3
All Other Motor Vehicle Operators	97199	9	0.1	NA	-	-	NA
All Other Transportation and Related Workers	97899	2	*	NA	-	-	NA
Industrial Truck and Tractor Operators	97947	75	1.1	17	88	62	19.7
All Other Material Moving Equipment Operators	97999	17	0.3	NA	-	-	NA
Machine Feeders and Offbearers	98502	95	1.4	27	120	70	9.2
Freight, Stock, and Material Movers, Hand	98700	116	1.7	12	130	102	35.5
Hand Packers and Packagers	98902	120	1.7	18	141	99	30.3
All Other Helpers, Laborers, and Material Movers, Hand	98999	303	4.3	NA	-	-	NA

* Less than 0.05 Percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All or "All Other" Category.

Automotive Mechanics
Billing, Cost and Rate Clerks
Boiler Operators, Low Pressure
Budget Analysts
Carpenters
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Computer Operators
Computer Programmers
Computer Programmer Aides
Conveyer Operators and Tenders
Crane and Tower Operators
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders
Designers
Electrical and Electronic Engineers
Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
File Clerks
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations
First Line Supervisors and Manager/ Supervisors-Service
First Line Supervisors and Manager/ Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager Supervisors-Transportation
First Line Supervisors and Manager/ Supervisors-Helpers, Laborers, and Material Movers, Hand
Food and Beverage Preparation and Service Occupations
Furnace Operators and Tenders
Gardeners and Groundskeepers
Guards and Watch Guards
Health Practitioners, Technologists, Technicians, and Related Health Occupations
Heating, Air Conditioning, and Refrigeration Mechanics and Installers
Hoist and Winch Operators
Industrial Engineering Technicians and Technologists
Life Scientists
Machinery Maintenance Workers
Mechanical Engineering Technicians and Technologists
Metallurgists and Metallurgical, Ceramic and Materials Engineers
Metal Fabricators, Structural Metal Products
Milling Machine Setters and Set-Up Operators, Metal and Plastic
Millwrights
Nuclear Engineers
Nonelectrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
Order Clerks
Painters and Paperhangers
Pattern and Model Makers
Packaging and Filling Machine Operators and Tenders
Personnel, Training and Public Relations Specialists
Personnel Clerks
Plumbers and Pipefitters
Precision Layout Workers-Metal
Precision Foundry Mold Makers
Precision Woodworkers
Programmer-Numerical Tool, and Process Control
Procurement Clerks
Purchasing Managers
Receptionists and Information Clerks
Rolling Machine Setters and Set-Up Operators
Safety Engineers
Sawing Machine Operators
Soldering and Brazing Machine Operators
Stenographers
Switchboard Operators
Systems Analysts
Typists
Typists, Word Processor
Woodworking Machine Setters and Set-Up Operators
Woodworking Machine Operators and Tenders

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

This major group includes establishments primarily engaged in manufacturing machinery and equipment (except electrical and transportation), machines powered by built-in or detachable motors (except electrical household appliances), and portable tools, both electric and pneumatic powered (except hand tools).

During the survey month of June 1983, there were 21,436 wage and salary workers employed in the nonelectrical machinery industries, a decrease of 2,006 jobs or 8.6 percent over the three year period since the previous survey of June 1980. This reflects the economic slowdown which started in late 1980. The largest occupational group in this industry was in production, construction, operating, maintenance and material handling occupations with almost 42 percent of the workers, followed by the professional, paraprofessional and technical occupations (over 26 percent) and clerical (over 18 percent). The three most prominent single occupations, electrical and electronic engineers with 1,124 workers, secretaries with 1,068 workers, and machinists with 1,025 workers combine to constitute 15 percent of the total employment in this major industrial group.

Our sample consisted of 190 units representing an employment of 21,193. Usable responses were received from 138 units or 73 percent of the units sampled. The reported employment was 16,466 or 78 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	22126	Electrical and Electronic Engineers	1,124
2	55100	Secretaries	1,068
3	89108	Machinists	1,025
4	83002	Precision Inspectors, Testers, and Graders	997
5	93114	Electrical and Electronic Equipment Assemblers-Precision	994
6	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	597
7	22505	Electrical and Electronic Engineering Technicians and Technologists	565
8	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	562
9	93956	Assemblers and Fabricators - Except Machine, Electrical, Electronic and Precision	477
10	93105	Machine Builders and Other Precision Machine Assemblers	446

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	73.4
2	89108	Machinists	61.0
3	81008	First Line Supervisors and Manager/ Supervisors - Production and Operating Workers	53.2
4	55100	Secretaries	49.4
5	55338	Bookkeeping, Accounting, and Auditing Clerks	48.7

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		21,436	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	2,004	9.3				
Financial Managers	13002	200	0.9	11	222	178	20.1
Personnel, Training, & Labor Relations Managers	13005	97	0.5	11	108	86	13.0
Purchasing Managers	13008	52	0.2	10	57	47	11.7
Marketing, Advertising, & Public Relations Managers	13011	305	1.4	21	370	240	10.4
Administrative Services Managers	13014	79	0.4	12	89	69	10.4
Industrial Production Managers	15014	293	1.4	7	313	273	13.6
General Managers And Top Executives	19005	371	1.7	7	425	344	73.4
All Other Managers And Administrators	19999	607	2.8	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	5,631	26.3				
Accountants And Auditors	21114	173	0.8	7	185	161	23.4
Budget Analysts	21117	40	0.2	14	46	34	6.5
All Other Financial	21199	72	0.3	NA	-	-	NA
Purchasing Agents	21308	143	0.7	8	154	132	17.5
Personnel, Training, And Labor Relations Specialists	21511	81	0.4	5	85	77	8.4
Cost Estimators	21902	29	0.1	9	32	26	8.4
All Other Management Support Workers	21999	226	1.0	NA	-	-	NA
Metallurgists And Metallurgical, Ceramic, Materials Engineers	22105	11	0.1	7	12	10	6.5
Chemical Engineers	22114	10	0.1	23	12	8	1.9
Electrical And Electronic Engineers	22126	1,124	5.2	20	1,348	900	17.5
Industrial Engineers, Except Safety	22128	252	1.2	12	282	222	15.6
Safety Engineers	22132	34	0.2	31	45	23	5.2
Mechanical Engineers	22135	254	1.2	9	277	231	24.7
All Other Engineers	22199	374	1.7	NA	-	-	NA

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Electrical & Electronic Engineering Technicians And Technologists	22505	565	2.6	14	646	484	18.8
Industrial Engineering Technicians And Technologists	22508	48	0.2	11	53	43	6.5
Mechanical Engineering Technicians & Technologists	22511	122	0.6	14	139	105	8.4
Drafters	22514	217	1.0	11	241	193	27.3
All Other Engineering And Related Technicians And Technologists	22599	166	0.8	NA	-	-	NA
All Other Physical Scientists	24199	58	0.3	NA	-	-	NA
Chemical Technicians And Technologists, Except Health	24505	50	0.2	29	65	35	1.9
All Other Physical And Life Science Technicians And Technologists	24599	6	*	NA	-	-	NA
Systems Analysts	25102	177	0.8	16	205	149	6.5
Computer Programmers	25105	277	1.3	8	300	254	10.4
Computer Programmer Aides	25108	18	0.1	16	21	15	3.2
Programmers, Numerical, Tool, And Process Control	25111	52	0.2	12	58	46	5.8
Health Practitioners, Technologists, Technicians & Related Occupations	32000	23	0.1	10	25	21	5.2
Writers And Editors	34002	27	0.1	23	29	17	2.6
Technical Writers	34005	248	1.2	18	293	203	3.9
Designers	34038	98	0.5	18	116	80	3.2
All Other Professional, Para-Professional & Technical Workers	39999	656	3.1	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	569	2.7				
First Line Supervisors And Manager/Supervisors	41002	63	0.3	6	10	2	7.1
Sales Engineers	49002	122	0.6	19	145	99	5.8
Sales Representatives, Scientific And Related Product & Services	49005	149	0.7	11	165	133	18.8
Other Sales Representatives	49008	167	0.8	17	195	139	18.8
All Other Sales And Related Workers	49999	68	0.3	NA	-	-	NA

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	3,963	18.5				
First Line Supervisors And Manager/Supervisors	51002	134	0.6	15	154	114	7.8
Secretaries	55100	1,068	5.0	9	1,168	968	49.4
Receptionists And Information Clerks	55305	17	0.1	13	19	15	6.5
Typists	55308	87	0.4	21	105	69	5.8
Typists, Word Processor	55311	25	0.1	19	30	20	2.6
Personnel Clerks	55314	30	0.1	13	34	26	5.8
File Clerks	55321	37	0.2	15	42	32	5.2
Order Clerks	55323	176	0.8	28	226	126	8.4
Procurement Clerks	55326	40	0.2	7	43	37	9.7
Bookkeeping, Accounting, And Auditing Clerks	55338	298	1.4	10	329	267	48.7
Payroll & Timekeeping Clerks	55341	33	0.2	8	36	30	9.7
Billing, Cost And Rate Clerks	55344	46	0.2	13	52	40	7.8
General Office Clerks	55347	164	0.8	7	176	152	40.3
Computer Operators	56011	115	0.5	12	129	101	11.0
Peripheral Edp Equipment Operators	56014	46	0.2	30	60	32	1.9
Data Entry Keyers	56017	153	0.7	15	176	130	9.1
All Other Office Machine Operators	56099	32	0.1	NA	-	-	NA
Switchboard Operators	57102	26	0.1	6	28	24	11.0
Production, Planning, And Expediting Clerks	58008	410	1.9	13	464	356	13.6
Weighers, Measurers, Checkers And Samplers	58017	10	0.1	33	13	7	1.9
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	597	2.9	19	713	481	29.9
Traffic, Shipping, And Receiving Clerks	58028	302	1.4	10	331	273	38.3
All Other Material Recording, Scheduling & Dist. Workers	58099	50	0.2	NA	-	-	NA
All Other Clerical And Administrative Support Workerss	59999	67	0.3	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	290	1.3				
First Line Supervisors And Manager/Supervisors	61000	20	0.1	11	22	18	5.2

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Guards And Watch Guards	63047	119	0.5	8	129	109	7.1
Janitors And Cleaners	67005	135	0.6	6	144	126	29.9
All Other Service Workers	69999	16	0.1	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	16	0.1				
Gardeners And Groundskeepers, Except Farm	79014	16	0.1	27	20	12	3.2
PRODUCTION, CONSTRUCTION, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	8,963	41.8				
First Line Supervisors And Managers/Supervisors Mechanics, Installers & Repairers	81002	33	0.1	9	36	30	7.1
First Line Supervisors & Managers/Supervisors Production & Operating Workers	562	562	2.6	7	601	523	53.2
First Line Supervisors & Managers/Supervisors-Transportation & Material Moving Machine & Vehicle Occupations	81011	21	0.1	20	25	17	2.6
First Line Supervisors And Managers/Supervisors-Helpers, Laborers, And Material Movers, Hand	81017	26	0.1	17	31	21	3.9
Precision Inspectors, Testers, And Graders	83002	997	4.7	16	1,160	834	27.9
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	142	0.7	24	177	107	10.4
Machinery Maintenance Mechanics	85110	82	0.4	11	91	73	6.5
Millwrights	85123	49	0.2	9	53	45	2.6
Maintenance Repairers, General Utility	85132	145	0.7	6	154	136	24.0
Data Processing Equipment Repairers	85705	34	0.1	31	44	24	2.6
Precision Instrument Repairers	85902	14	0.1	25	17	11	1.9
All Other Mechanics, Installers, And Repairers	85999	39	0.2	NA	-	-	NA
Electricians	87202	56	0.3	7	60	52	10.4
Plumbers & Pipefitters	87502	11	0.1	20	13	9	2.6
All Other Construction Trades Workers	87899	19	0.1	NA	-	-	NA

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Tool And Die Makers	89102	186	0.9	15	214	158	23.4
Machinists	89108	1,025	4.8	5	1,077	973	61.0
Tool Grinders, Filers, Sharpeners, And Other Precision Grinders	89111	75	0.3	18	88	62	5.8
Sheet Metal Workers	89132	64	0.3	17	75	53	6.5
All Other Precision Metal Workers	89199	33	0.2	NA	-	-	NA
Pattern & Model Makers, Wood	89302	10	0.1	25	13	7	1.9
All Other Precision Woodworkers	89399	4	*	NA	-	-	NA
All Other Precision Workers	89999	10	*	NA	-	-	NA
Sawing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91102	11	0.1	24	14	8	5.8
Lathe And Turning Machine Tool Setters & Set-Up Operators, Metal & Plastic	91105	305	1.4	11	338	272	23.4
Drilling & Boring Machine Tool Setters & Set-Up Operators, Metal & Plastic	91108	165	0.8	14	188	142	16.2
Milling & Planing Machine Setters & Set-Up Operators, Metal & Plastic	91111	108	0.5	15	124	92	13.0
Grinding, Lapping, & Buffing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91114	362	1.7	13	409	315	18.2
Machine Tool Cutting Operators & Tenders, Metal & Plastic	91117	256	1.2	16	296	216	10.4
Punching Machine Setters & Set-Up Operators, Metal & Plastic	91302	16	0.1	25	20	12	3.9
Shear & Slitter Machine Setters & Set-Up Operators, Metal & Plastic	91308	11	0.1	11	12	10	2.6
Machine Forming Operators & Tenders, Metal & Plastic	91321	71	0.3	32	94	48	3.9
Numerical Control Machine Tool Operators & Tenders, Metal & Plastic	91502	275	1.3	7	295	255	22.7
Combination Machine Tool Setters & Set-Up Operators, Metal Plastic	91505	33	0.2	20	40	26	5.8
Combination Machine Tool Operators & Tenders, Metal & Plastic	91508	48	0.2	29	62	34	4.5

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Welding Machine Setters & Set-Up Operators	91702	51	0.2	15	59	43	9.7
Welding Machine Operators & Tenders	91705	10	*	24	15	5	1.9
Soldering & Brazing Machine Setters & Set-Up Operators	91708	25	0.1	18	30	20	3.9
Soldering & Brazing Machine Operators & Tenders	91711	14	0.1	24	17	11	4.5
Heat Treating, Annealing, And Tempering Machine Operators & Tenders, Metal & Plastic	91932	20	0.1	13	23	17	5.2
All Other Metal & Plastic Machine Setters & Set-Up Operators	92197	7	*	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	305	1.4	NA	-	-	NA
Coating, Painting, & Spraying Machine Setters & Set-Up Operators	92951	18	0.1	23	22	14	5.2
Coating, Painting, & Spraying Machine Operators And Tenders	92953	21	0.1	35	28	14	3.2
All Other Machine Setters & Set-Up Operators	92997	20	0.1	NA	-	-	NA
All Other Machine Operators And Tenders	92998	122	0.5	NA	-	-	NA
Machine Builders & Other Precision Machine Assemblers	93105	446	2.1	13	505	387	13.0
Electromechanical Equipment Assemblers-Precision	93111	25	0.1	32	33	17	1.9
Electrical & Electronic Equipment Assemblers-Precision	93114	994	4.6	21	1,207	781	9.7
Machine Assemblers	93902	287	1.3	15	330	244	7.1
Electrical & Electronic Assemblers	93905	138	0.6	27	176	100	4.5
Welders And Cutters	93914	292	1.4	22	357	227	6.5
Grinding & Polishing Workers, Hand	93953	69	0.3	17	81	57	3.2
Assemblers & Fabricators-Except Machine, Electrical, Electronic & Precision	93956	477	2.2	18	564	390	14.3
All Other Hand Workers	93999	38	0.2	NA	-	-	NA
All Other Plant & System Operators	95099	14	0.1	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	17	0.1	12	19	15	7.1

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Motor Vehicle Operators	97199	10	*	NA	-	-	NA
Industrial Truck & Tractor Operators	97947	95	0.4	13	107	83	10.2
Mechanic & Repairer Helpers	98102	18	0.1	19	21	15	2.6
Machine Feeders & Offbearers	98502	51	0.2	24	63	39	5.8
Freight, Stock, & Material Movers, Hand	98700	69	0.3	24	86	52	7.1
All other Helpers, Laborers, And Material Movers, Hand	98999	12	0.1	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Agricultural Engineers
Automotive Mechanics
Boiler Operators, Low Pressure
Bus and Truck Mechanics and Diesel Engine Specialists
Carpenters
Civil Engineers, Including Traffic
Chemists
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Crushing, Grinding, Mixing, and Blending Machine Operators
Coil Winders, Tapers and Finishers
Electronic Semiconductor Processors
Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
First Line Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers
Food and Beverage Preparation and Service Occupations
Furnace Operators and Tenders
Heating, Air Conditioning, and Refrigeration Mechanics and Installers
Heating Equipment Setters and Set-Up Operators, Metal and Plastic
Heaters, Metal and Plastic
Lawyers
Life Scientists
Machinery Maintenance Workers
Metal Molding, Coremaking and Casting Machine Operators and Tenders
Operations and Systems Researchers and Analysts, Except Computer
Packaging and Filling Machine Operators and Tenders
Physicists and Astronomers
Precision Foundry Mold Makers
Precision Layout Workers, Metal and Plastic
Public Relations Specialists and Publicity Writers
Riggers
Sawing Machine Operators and Tenders
Solderers and Brazers
Stationary Engineers
Statisticians
Statistical Clerks
Stenographers
Truck Drivers, Heavy
Woodworking Machine Operators and Tenders, Except Sawing
Woodworking Machine Setters and Set-Up Operators, Except Sawing

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
ELECTRICAL AND ELECTRONIC
MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

This major group includes establishments engaged in manufacturing machinery, apparatus and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is also included in this group.

During the survey month of June 1983 there were 22,030 wage and salary workers, an increase of 2,258 workers or 11 percent over a similar survey taken three years earlier. This group had the highest employment in New Hampshire manufacturing in 1983. An indication of the growth for this group is the increase in the number of establishments from 120 in 1977 to 164 in 1983, a 37 percent increase.

Our sample consisted of 101 units representing an employment of 20,591. Usable responses were received from 74 units or 73 percent of the units sampled. The reported employment was 17,082 or 83 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	93905	Electrical and Electronic Assemblers	1,810
2	22126	Electrical and Electronic Engineers	1,365
3	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	1,269
4	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	1,038
5	22505	Electrical and Electronic Engineering Technicians and Technologists	736
6	19005	General Managers and Top Executives	685
7	93902	Machine Assemblers	683
8	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	653
9	55100	Secretaries	619
10	93908	Coil Winders, Tapers and Finishers	605

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	65.6
2	55100	Secretaries	55.2
3	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	54.2
4	22126	Electrical and Electronic Engineers	46.9
5	21308	Purchasing Agents	43.8
	58028	Traffic, Shipping, and Receiving Clerks	43.8

STAFFING PATTERNS
ELECTRICAL AND ELECTRONIC
MACHINERY, EQUIPMENT AND SUPPLIES
(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL OCCUPATIONS		22,030	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	1,696	7.7				
Financial Managers	13002	218	1.0	2	224	212	24.0
Personnel, Training, & Labor Relations Managers	13005	57	0.3	15	65	49	25.0
Purchasing Managers	13008	76	0.3	5	80	72	18.8
Marketing, Advertising, & Public Relations Managers	13011	117	0.5	7	125	109	17.7
Administrative Services Managers	13014	33	0.2	14	38	28	9.4
Industrial Production Managers	15014	331	1.5	6	351	311	26.0
General Managers And Top Executives	19005	685	3.1	3	707	663	65.6
All Other Managers And Administrators	19999	179	0.8	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	5,245	23.8				
Accountants And Auditors	21114	420	1.9	2	430	410	33.3
All Other Financial Specialists	21199	9	*	NA	-	-	NA
Purchasing Agents	21308	109	0.5	8	118	100	43.8
Personnel, Training, And Labor Relations Specialists	21511	90	0.4	4	94	86	11.5
Cost Estimators	21902	65	0.3	7	69	61	8.3
All Other Management Support Workers	21999	276	1.3	NA	-	-	NA
Chemical Engineers	22114	23	0.1	21	28	18	6.3
Electrical And Electronic Engineers	22126	1,365	6.2	3	1,404	1,326	46.9
Industrial Engineers, Except Safety	22128	127	0.6	11	141	113	22.9
Mechanical Engineers	22135	148	0.7	5	156	140	22.9
All Other Engineers	22199	425	1.9	NA	-	-	NA

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Electrical & Electronic Engineering Technicians And Technologists	22505	736	3.3	4	763	709	36.5
Industrial Engineering Technicians And Technologists	22508	11	0.1	33	15	7	5.2
Mechanical Engineering Technicians And Technologists	22511	44	0.2	10	48	40	7.3
Drafters	22514	347	1.6	4	361	333	35.4
All Other Engineering And Related Technicians And Technologists	22599	380	1.7	NA	-	-	NA
Chemists	24105	18	0.1	19	21	15	7.3
All other Physical Scientists	24199	20	0.1	NA	-	-	NA
Chemical Technicians And Technologists, Except Health	24505	32	0.1	43	46	18	6.3
Systems Analysts	25102	37	0.2	9	40	34	6.3
Computer Programmers	25105	351	1.6	2	358	344	16.7
Computer Programmer Aides	25108	75	0.3	3	84	66	5.2
Health Practitioners, Technologists, Technicians & Related Occupations	32000	35	0.2	5	37	33	6.3
Technical Writers	34005	10	*	31	13	7	6.3
All Other Professional, Para-Professional & Technical Workers	39999	92	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	263	1.2				
First Line Supervisors And Manager/Supervisors	41002	33	0.2	34	44	22	11.5
Sales Engineers	49002	54	0.2	25	68	40	10.4
Sales Representatives, Scientific And Related Products And Services	49005	136	0.6	33	181	91	21.9
Other Sales Representatives	49008	29	0.1	19	35	23	12.5
All Other Sales And Related Workers	49999	11	0.1	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	2,516	11.4				
First Line Supervisors And Manager/Supervisors	51002	29	0.1	14	33	25	13.5

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Secretaries	55100	619	2.8	4	644	594	55.2
Stenographers	55302	72	0.3	2	74	70	3.1
Receptionists And Information Clerks	55305	20	0.1	17	23	17	12.5
Typists	55308	355	1.6	2	361	349	11.5
Typists, Word Processor	55311	46	0.2	3	47	45	3.1
Personnel Clerks	55314	34	0.1	12	38	30	18.8
Order Clerks	55323	65	0.3	12	73	57	16.7
Procurement Clerks	55326	23	0.1	23	28	18	12.5
Bookkeeping, Accounting, And Auditing Clerks	55338	149	0.7	4	155	143	34.4
Payroll & Timekeeping Clerks	55341	41	0.2	13	46	36	27.1
Billing, Cost And Rate Clerks	55344	28	0.1	38	39	17	11.5
General Office Clerks	55347	150	0.7	9	163	137	38.5
Computer Operators	56011	38	0.2	9	42	34	8.3
Data Entry Keyers	56017	59	0.3	9	64	54	12.5
All Other Office Machine Operators	56099	24	0.1	NA	-	-	NA
Switchboard Operators	57102	30	0.1	12	33	27	15.6
Production, Planning, And Expediting Clerks	58008	289	1.3	5	304	274	28.1
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	239	1.1	12	267	211	41.7
Traffic, Shipping, And Receiving Clerks	58028	174	0.8	21	210	138	43.8
All Other Material Recording, Scheduling & Dist. Workers	58099	17	0.1	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	15	0.1	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	372	1.7				
First Line Supervisors And Manager/Supervisors	61000	39	0.2	21	47	31	9.4
Guards And Watch Guards	63047	124	0.6	7	133	115	9.4
Janitors And Cleaners	67005	208	0.9	6	220	196	34.4
All Other Service Workers	69999	1	*	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	70000-79999	4	*				

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	11,934	54.2				
First Line Supvrs. & Mgr/Supvrs.-Mechanics, Installers & Repairers	81002	30	0.1	18	35	25	13.5
First Line Supvrs. & Mgr/Supvrs.-Production & Operating Workers	81008	653	3.0	8	703	603	54.2
First Line Supvrs. & Mgr/Supvrs.-Helpers, Laborers, & Material Movers, Hand	81017	11	*	45	16	6	5.2
Precision Inspectors, Testers, And Graders	83002	464	2.1	14	529	399	30.2
Production Inspectors, Testers, Graders, Sorters, Samplers, & Weighers	83005	1,038	4.7	15	1,198	878	35.4
Machinery Maintenance Mechanics	85110	196	0.9	29	253	139	11.5
Millwrights	85123	11	*	28	14	8	4.2
Machinery Maintenance Workers	85128	23	0.1	13	26	20	4.2
Maintenance Repairers, General Utility	85132	222	1.0	14	254	190	34.4
Electronics Repairers, Commercial And Industrial Equipment	85717	12	0.1	32	16	8	4.2
All Other Mechanics, Installers And Repairers	85999	40	0.2	NA	-	-	NA
Carpenters	87102	34	0.1	9	37	31	6.3
Electricians	87202	70	0.3	8	75	65	12.5
Plumbers And Pipefitters	87502	13	0.1	22	16	10	3.1
All Other Const. Trades Workers	87899	5	*	NA	-	-	NA
Tool And Die Makers	89102	95	0.4	24	118	72	18.8
Machinists	89108	178	0.8	13	201	155	26.0
Sheet Metal Workers	89132	59	0.3	3	61	57	12.5
All Other Precision Metal Workers	89199	13	0.1	NA	-	-	NA
Lathe And Turning Machine Tool Setters & Set-Up Operators, Metal & Plastic	91105	56	0.3	43	80	32	7.3
Drilling & Boring Machine Tool Setters & Set-Up Operators, Metal & Plastic	91108	25	0.1	46	37	13	5.2

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Grinding, Lapping, & Buffing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91114	13	0.1	44	19	7	4.2
Machine Tool Cutting Operators & Tenders, Metal & Plastic	91117	46	0.2	45	67	25	8.3
Press & Press Brake Machine Setters & Set-Up Operators, Metal & Plastic	91305	13	0.1	44	19	7	3.1
Machine Forming Operators & Tenders, Metal & Plastic	91321	30	0.1	21	36	24	3.1
Welding Machine Setters & Set-Up Operators	91702	12	0.1	0	12	12	5.2
All Other Metal & Plastic Machine Setters & Set-Up Operators	92197	239	1.1	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	426	1.9	NA	-	-	NA
Screen Printing Machine Setters & Set-Up Operators	92524	12	0.1	49	18	6	4.2
All Other Printing, Binding, And Related Machine Operators & Tenders	92549	51	0.2	NA	-	-	NA
Coating, Painting, & Spraying Machine Setters & Set-Up Operators	92951	15	0.1	18	18	1	6.3
Coating, Painting, & Spraying Machine Operators and Tenders	92953	51	0.2	42	73	29	5.2
All Other Machine Setters & Set-Up Operators	92997	23	0.1	NA	-	-	NA
All Other Machine Operators And Tenders	92998	837	3.8	NA	-	-	NA
Electromechanical Equipment Assemblers-Precision	93111	235	1.1	28	301	169	10.4
Electrical And Electronic Equipment Assemblers-Precision	93114	1,216	5.5	37	1,663	769	20.8
All Other Precision Assemblers, Metal	93197	207	0.9	NA	-	-	NA
Machine Assemblers	93902	683	3.1	5	719	647	4.2
Electrical & Electronic Assemblers	93905	1,810	8.2	39	2,515	1,105	29.2
Coil Winders, Tapers & Finishers	93908	605	2.7	40	845	365	15.6

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Assemblers & Fabricators-Except Machine, Electrical, Electronic & Precision	93956	1,269	5.8	9	1,387	1,151	16.7
All Other Hand Workers	93999	433	2.0	NA	-	-	NA
All Other Plant & System Operators	95099	12	0.1	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	18	0.1	23	22	14	13.5
All Other Motor Vehicle Operators	97199	27	0.1	NA	-	-	NA
All Other Transportation And Related Workers	97899	6	*	NA	-	-	NA
Industrial Truck & Tractor Operators	97947	17	0.1	15	20	14	5.2
All Other Material Moving Equipment Operators	97999	2	*	NA	-	-	NA
Machine Feeders & Offbearers	98502	154	0.7	16	179	129	4.2
Freight, Stock, & Material Movers, Hand	98700	138	0.6	18	163	113	19.8
All Other Helpers, Laborers, And Material Movers, Hand	98999	86	0.4	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Billing, Posting and Calculating Machine Operators
Budget Analysts
Civil Engineers, Including Traffic
Civil Engineering Technicians and Technologists
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic
Combination Machine Tool Operators and Tenders, Metal and Plastic
Construction Trades and Extractive Worker Helpers
Data Processing Equipment Repairers
Designers
Electromedical and Biomedical Repairers
Electric Motor, Transformer and Related Repairers
Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
Electrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
First Line Supervisors and Manager/Supervisors-Transportation and Material Moving Machine and Vehicle Operators
Gardeners and Groundskeepers Grinding and Polishing Workers, Hand
Heating, Air Conditioning, and Refrigeration Mechanics and Installers
Heating Equipment Setters and Set-Up Operators, Metal and Plastic
Heat Treating, Annealing, and Tempering Machine Operators and Tenders, Metal and Plastic
Lawyers
Life Scientists
Machine Builders and Other Precision Machine Assemblers
Mathematical Technicians
Mechanic and Repairer Helpers
Metallurgists and Metallurgical. Ceramic and Materials Engineers
Metal Molding, Coremaking, and Casting Machine Setters and Set-Up Operators
Milling and Planing Machine Setters and Set-Up Operators
Nonelectrolytic Plating and Coating MachineSetters and Set-Up Operators,
Nonelectrolytic Plating and Coatting Machine Operators and Tenders
Numerical Control Machine Tool Operators and Tenders, Metal and Plastic
Operations and Systems Researchers and Analysts, Except Computer
Packaging and Filling Machine Operators and Fillers
Painters and Paperhangers
Peripheral EDP Equipment Operators
Physicists and Astronomers
Plastic Molding and Casting Machine Setters and Set-Up Operators
Plastic Molding and Casting Machine Operators and Tenders
Precision Instrument Repairers
Precision Layout Workers, Metal
Programmers-Numerical, Tool and Process Control
Public Relations Specialists
Punching Machine Setters and Set-Up operators, Metal and Plastic
Safety Engineers, Except Mining
Sawing Machine Tool Setters and Set-Up Operators
Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic
Soldering and Brazing Machine Operators and Set-Up Operators
Soldering and Brazing Machine Operators and Tenders
Solders and Brazers, hand
Tool Grinders, Filers, Sharpeners and Other Precision Grinders
Watch, Clock, and Chronometer Assemblers, Adjusters and Calibrators-Precision
Weighers, Measurers, Checkers, and Samplers-Recordkeeping
Welders and Cutters
Welding Machine Operators and Tenders
Writers and Editors

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; surgical, medical and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; and watches and clocks.

During the survey month of April 1983 there were 7,058 wage and salary workers employed in the instruments and related products industries, a loss of 610 workers (or 8 percent) from a similar survey conducted three years ago. The largest occupational group, production, construction, operating, maintenance, and material handling provided 4,477 jobs or more than 63 percent of the total employment in these industries.

Our sample consisted of 48 units representing an employment of 6,649. Usable responses were received from 42 units or 88 percent of the units sampled. The reported employment was 6,413 or 96 percent of the employment in the sample.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT
1	93905	Electrical and Electronic Assemblers	698
2	93956	Assemblers, and Fabricators-Except Machine, Electrical, Electronic and Precision	626
3	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	396
4	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	321
5	93114	Electrical and Electronic Equipment Assemblers-Precision	307
6	22505	Electrical and Electronic Engineering Technicians and Technologists	223
7	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	186
8	22126	Electrical and Electronics Engineers	138
9	55100	Secretaries	137
10	19005	General Managers and Top Executives	106
	58008	Production, Planning and Expediting Clerks	106

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	86.0
2	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	79.1
3	55100	Secretaries	72.1
4	21308	Purchasing Agents	51.2
5	58028	Traffic, Shipping, and Receiving Clerks	48.8

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		7,058	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	416	5.9				
Financial Managers	13002	30	0.4	4	31	29	30.2
Personal, Training, & Labor Relations Managers	13005	14	0.2	4	15	13	23.3
Purchasing Managers	13008	15	0.2	4	16	14	27.9
Marketing, Advertising, & Public Relations Managers	13011	33	0.5	5	35	31	25.6
Administrative Services Managers	13014	26	0.4	5	27	25	9.3
Industrial Production Managers	15014	74	1.0	3	76	72	32.6
General Managers And Top Executives	19005	106	1.5	8	114	98	86.0
All Other Managers And Administrators	19999	118	1.7	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	1,017	14.4				
Accountants And Auditors	21114	22	0.3	3	23	21	16.3
All Other Financial Specialists	21199	26	0.4	NA	-	-	NA
Purchasing Agents	21308	71	1.0	3	73	69	51.2
Personnel, Training, And Labor Relations Specialists	21511	19	0.3	2	19	19	14.0
All Other Management Support Workers	21999	66	0.9	NA	-	-	NA
Electrical And Electronic Engineers	22126	138	2.0	3	142	134	41.9
Industrial Engineers, Except Safety	22128	78	1.1	1	79	77	23.3
Mechanical Engineers	22135	83	1.2	1	84	82	23.3
All Other Engineers	22199	36	0.5	NA	-	-	NA
Electrical & Electronic Engineering Technicians And Technologists	22505	223	3.2	2	226	220	46.5
Mechanical Engineering Technicians & Technologists	22511	35	0.5	4	36	34	18.6

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Drafters	22514	61	0.9	3	63	59	39.5
All Other Engineering And Related Technicians & Technologists	22599	17	0.2	NA	-	-	NA
All Other Physical Scientists	24199	3	*	NA	-	-	NA
All Other Physical And Life Science Technicians & Technologists	24599	1	*	NA	-	-	NA
Systems Analysts	25102	20	0.3	3	21	19	9.3
Computer Programmers	25105	30	0.4	1	30	30	14.0
All Other Health Professionals, Paraprofessionals, & Technicians	32999	44	0.6	NA	-	-	NA
Designers	34038	13	0.2	16	15	11	9.3
All Other Professionals, Paraprofessionals & Technicians	39999	31	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	95	1.3				
First Line Supervisors And Manager/Supervisors	41002	12	0.2	6	13	11	9.3
Sales Engineers	49002	36	0.5	7	39	33	14.0
Sales Representatives, Scientific And Related Prods. & Services	49005	25	0.4	15	29	21	20.9
Other Sales Representatives	49008	10	0.1	18	12	8	11.6
All Other Sales And Related Workers	49999	12	0.1	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	960	13.6				
First Line Supervisors And Manager/Supervisors	51002	27	0.4	7	30	25	14.0
Secretaries	55100	137	1.9	4	142	132	72.1
Typists	55308	26	0.4	5	27	25	16.3
Typists, Word Processing	55311	17	0.2	0	17	17	9.3
Personnel Clerks	55314	10	0.1	3	10	10	14.0
Procurement Clerks	55326	25	0.4	2	25	25	11.6

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Bookkeeping, Accounting, And Auditing Clerks	55338	60	0.9	7	64	56	46.5
Payroll & Timekeeping Clerks	55341	15	0.2	2	15	15	20.9
Billing, Cost & Rate Clerks	55344	22	0.3	5	23	21	16.3
General Office Clerks	55347	79	1.1	7	84	74	34.9
Billing, Posting, And Calculating Machine Operators	56002	11	0.1	0	11	11	7.0
Computer Operators	56011	20	0.3	6	21	19	16.3
Data Entry Keyers	56017	23	0.3	2	23	23	11.6
All Other Office Machine Operators	56099	18	0.3	NA	-	-	NA
Switchboard Operators	57102	12	0.2	7	13	11	20.9
Production, Planning, And Expediting Clerks	58008	106	1.5	1	108	104	27.9
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	186	2.6	1	187	185	39.5
Traffic, Shipping, And Receiving Clerks	58028	84	1.2	5	88	80	48.8
All Other Material Recording, Scheduling, & Dist. Workers	58099	19	0.3	NA	-	-	NA
All Other Clerical & Admin. Workers	59999	63	0.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	88	1.2				
Janitors And Cleaners	67005	71	1.0	3	73	69	37.2
All Other Cleaning & Bldg. Service Workers	67099	1	*	NA	-	-	NA
All Other Service Workers	69999	16	0.2	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	70000-79999	4	0.1	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	4,477	63.4				
First Line Supvrs. & Mgr/Supvrs. Production & Operating Wkrs.	81008	396	5.6	2	403	389	79.1

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other First Line Supervisors & Mgr/Supvrs.	81099	24	0.3	NA	-	-	NA
Precision Inspectors, Testers, And Graders	83002	92	1.3	5	97	87	34.9
Production Inspectors, Testers, Graders, Sorters, Samplers, & Weighers	83005	321	4.5	6	341	301	30.2
Machinery Maintenance Mechanics	85110	17	0.2	15	20	14	7.0
Maintenance Repairers, General Utility	85132	92	1.3	6	97	87	27.9
Precision Instrument Repairers	85905	78	1.1	12	88	68	11.6
All Other Mechanics, Installers And Repairers	85999	6	0.1	NA	-	-	NA
All Other Const. Trades Wkrs.	87899	15	0.2	NA	-	-	NA
Tool & Die Makers	89102	94	1.3	1	95	93	16.3
Precision Instrument Makers	89105	41	0.6	6	44	38	7.0
Machinists	89108	66	0.9	6	70	62	30.2
Tool Grinders, Filers, Sharpeners, & Other Precision Grinders	89111	16	0.2	11	18	14	14.0
Sheet Metal Workers	89132	18	0.3	10	20	16	11.6
All Other Precision Metal Workers	89199	28	0.4	NA	-	-	NA
Precision Detail Design Decorators & Painters	89911	19	0.3	45	27	11	7.0
Precision Optical Goods Wkrs.	89917	33	0.5	35	44	22	11.6
All Other Precision Workers	89999	85	1.2	NA	-	-	NA
Lathe & Turning Machine Tool Setters & Set-Up Operators, Metal & Plastic	91105	48	0.7	0	48	48	7.0
Drilling & Boring Machine Tool Setters & Set-Up Operators, Metal & Plastic	91108	18	0.3	8	19	17	11.6
Grinding, Lapping, & Buffing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91114	18	0.3	0	18	18	7.0
Machine Tool Cutting Operators & Tenders, Metal & Plastic	91117	74	1.0	2	75	73	7.0
Punching Machine Setters & Set-Up Operators, Metal And Plastic	91302	41	0.6	2	42	40	14.0

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Numerical Control Machine Tool and Tenders, Metal and Plastic	91502	14	0.2	3	14	14	7.0
All Other Metal and Plastic Machine Setters and Set-Up Operators	92197	46	0.6	NA	-	-	NA
All Other Metal and Plastic Machine Operators and Tenders	92198	88	1.2	NA	-	-	NA
Coating, Painting, and Spraying, Machine Operators and Tenders	92953	17	0.2	9	19	15	9.3
All Other Machine Setters and Set-Up Operators	92997	27	0.4	NA	-	-	NA
All Other Machine Operators And Tenders	92998	143	2.0	NA	-	-	NA
Electrical & Electronic Equipment Assemblers-Precision	93114	307	4.3	9	336	278	25.6
All Other Precision Assemblers, Metal	93197	657	9.3	NA	-	-	NA
Electrical & Electronic Assemblers	93905	698	9.9	4	729	667	25.6
Welders And Cutters	93914	30	0.4	3	31	29	9.3
Solderers & Brazers	93917	47	0.7	5	50	44	9.3
Painting, Coating, & Decorating Workers, Hand	93947	11	0.2	0	11	11	7.0
Grinding & Polishing Workers, Hand	93953	19	0.3	2	19	19	11.6
Assemblers, And Fabricators-Except Machine, Electrical, Electronic & Precision	93956	626	8.9	9	682	570	37.2
All Other Hand Workers	93999	6	0.1	NA	-	-	NA
All Other Plant & System Operators	95099	3	*	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	11	0.2	0	11	11	9.3
All Other Motor Vehicle Operators	97199	7	0.1	NA	-	-	NA
All Other Trans. & Related Workers	97899	1	*	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	28	0.4	NA	-	-	NA

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	LOW	PERCENT FIRMS REPORT
Machine Feeders & Offbearers	98502	12	0.2	34	16	8	7.0
Freight, Stock, And Material Movers, Hand	98700	34	0.5	6	36	32	
All Other Helpers, Laborers, And Material Movers, Hand	98999	6	0.1	NA	-	-	NA

* Less Than 0.05 Percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Budget Analysts
Carpenters
Chemists
Chemical Engineers
Chemical Technicians and Technologists, Except Health
Chemical Equipment Controllers and Operators
Chemical Equipment Tenders
Chemical Plant and System Operators
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Coating, Painting, and Spraying Machine Setters and Set-Up Operators
Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic
Combination Machine Tool Operators and Tenders, Metal and Plastic
Computer Programmer Aides
Cost Estimators
Crushing, Grinding, Mixing, and Blending Machine operators
Electromechanical Equipment Assemblers-Precision
Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
Electrolytic Plating and Coating Machine operators and Tenders, Metal and Plastic
Electricians
File Clerks
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Service
Food and Beverage Preparation and Service Occupations
Gardeners and Groundskeepers
Guards and Watch Guards
Hand Packers and Packagers
Heattreating, Annealing, and Tempering Machine Operators and Tenders
Industrial Engineering Technicians and Technologists
Industrial Truck and Tractor Operators
Machinery Maintenance Workers
Machine Forming Operators and Tenders, Metal and Plastic
Machine Builders and Other Precision Machine Assemblers
Medical Appliance Makers
Metallurgists and Metallurgical, Ceramic, and Materials Engineers
Metal Molding, Coremaking, and Casting Machine Setters and Set-Up Operators
Metal Molding, Coremaking, and Casting Machine Operators and Tenders
Milling and Planing Machine Setters and Set-up Operators, Metal and Plastic
Nonelectrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
Order Clerks
Packaging and Filling Machine Operators and Tenders
Painters and Paperhangers
Peripheral EDP Equipment Operators
Physicists and Astronomers
Plumbers and Pipefitters
Press and Press Brake Machine Setters and Set-Up Operators
Programmers-Numerical, Tool, and Process Control
Receptionists and Information Clerks
Sewing Machine Operators, Non-garment
Shear and Slitter Machine Setters and Set-Up Operators
Soldering and Brazing Machine Operators and Tenders
Technical Writers
Truck Drivers, Heavy
Watch, Clock, and Chronometer Assemblers, Adjusters, and Calibrators-Precision
Weighers, Measurers, Checkers, and Samplers-Recordkeeping
Writers and Editors

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing major group. Industries in this group fall into the following categories: jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens; pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

Wage and salary workers in miscellaneous manufacturing industries totaled 1,778 during the survey month of May 1983. This was a loss of 226 workers (or 11 percent) from a similar survey conducted three years earlier.

Our sample consisted of 34 units representing an employment of 1,673. Usable responses were received from 27 units or 79 percent of the units sampled. The reported employment was 1,370 or 82 percent of the employment in the sample.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	89311	Cabinetmakers and Bench Carpenters	158
2	93956	Assemblers and Fabricators- Except Machine, Electrical, Electronic, and Precision	122
3	92721	Sewing Machine Operators, Non-garment	107
4	92314	Woodworking Machine Operators Tenders, Except Sawing	100
5	98502	Machine Feeders and Offbearers	92
6	98902	Hand Packers and Packagers	91
7	49008	Other Sales Representatives, Except Retail	58
8	19005	General Managers and Top Executives	56
9	55347	General Office Clerks	41
	98700	Freight, Stock, and Material Movers	
11	91117	Machine Tool Cutting Operators and Tenders, Metal and Plastic	37

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	61.3
2	55100	Secretaries	41.9
3	58028	Traffic, Shipping and Receiving Clerks	38.7
4	55338	Bookkeeping, Accounting, and Auditing Clerks	35.5
	55347	General Office Clerks	35.5

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		1,778	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	98	5.5				
General Managers And Top Executives	13002	56	3.1	19	67	45	61.3
All Other Managers And Administrators	19999	42	2.4	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	70	3.9				
All Other Financial Specialists	21199	11	0.6	NA	-	-	NA
Purchasing Agents	21308	12	0.7	15	14	10	25.8
All Other Management Support Workers	21999	4	0.2	NA	-	-	NA
All Other Engineers	22199	12	0.7	NA	-	-	NA
All Other Engineering And Related Technicians	22599	5	0.2	NA	-	-	NA
All Other Physical And Life Science Technicians	24599	1	0.1	NA	-	-	NA
Designers	34038	18	1.0	30	23	13	22.6
All Other Professional, Paraprofessional And Technical Workers	39999	7	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	105	5.9				
First Line Supervisors And Manager/Supervisors	41002	20	1.1	23	25	15	12.9
Other Sales Representatives	49008	58	3.3	9	63	53	22.6
All Other Sales And Related Workers	49999	27	1.5	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	163	9.2				
Secretaries	55100	25	1.4	22	30	20	41.9
Order Clerks	55323	12	0.7	12	13	11	16.1

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Bookkeeping, Accounting, And Auditing Clerks	55338	18	1.0	15	21	15	35.5
General Office Clerks	55347	41	2.3	14	47	35	35.5
All Other Office Machine Operators	56099	9	0.5	NA	-	-	NA
Traffic, Shipping, And Receiving Clerks	58028	24	1.4	17	28	20	38.7
All Other Material Recording Scheduling And Distribution Workers	58099	7	0.4	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	27	1.5	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	21	1.2				
Janitors And Cleaners	67005	16	0.9	11	18	14	22.6
All Other Cleaners And Building Service Workers	67099	1	0.1	NA	-	-	NA
All Other Service Workers	69999	4	0.2	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	1	0.1	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	1,320	74.2				
First Line Supervisors And Manager/Supervisors-Production And Operating Workers	81008	36	2.0	13	41	31	32.3
Maintenance Repairers, General Utility	85132	16	0.9	37	32	10	25.8
All Other Mechanics, Repairers And Installers	85999	25	1.4	NA	-	-	NA
All Other Construction Trades Workers	87899	69	3.9	NA	-	-	NA
All Other Precision Metal Workers	89199	38	2.1	NA	-	-	NA

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Wood Machinists	89308	10	0.6	23	12	8	9.7
Cabinetmakers & Bench Carpenters	89311	158	8.9	32	208	108	12.9
All Other Precision Woodworkers	89399	18	1.0	NA	-	-	NA
Precision Detail Design Decorators And Painters	89911	15	0.8	37	20	10	12.9
All Other Precision Workers	89999	21	1.2	NA	-	-	NA
Machine Tool Cutting Operators And Tenders, Metal & Plastics	91117	37	2.1	13	42	32	9.7
All Other Metal & Plastic Machine Setters & Set-Up Operators	92197	20	1.1	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	11	0.6	NA	-	-	NA
Woodworking Machine Operators And Tenders, Except Sawing	92314	100	5.6	22	122	78	9.7
Woodworking Machine Operators And Tenders, Except Sawing							
Screen Printing Machine Setters & Set-Up Operators	92524	16	0.9	25	20	12	16.1
Sewing Machine Operators, Non-Garment	92721	107	6.0	8	116	98	29.0
All Other Machine Setters & Set-Up Operators	92997	77	4.3	NA	-	-	NA
All Other Machine Operators And Tenders	92998	123	6.9	NA	-	-	NA
Painting, Coating, And Decorating Workers, Hand	93947	26	1.5	46	38	14	16.1
Assemblers, And Fabricators-Except Machine, Electrical, Electronic, And Precision	93956	122	6.9	4	127	117	9.7
All Other Hand Workers	93999	13	0.7	NA	-	-	NA
Truck Drivers, Heavy Or Tractor Trailer	97102	13	0.7	45	19	7	9.7
All Other Transportation And Related Workers	97899	2	0.1	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	7	0.4	NA	-	-	NA
Machine Feeders & Offbearers	98502	92	5.2	32	121	63	12.9
Freight, Stock, & Material Movers, Hand	98700	41	2.3	10	45	37	25.8
Hand Packers And Packagers	98902	91	5.1	5	95	87	16.1
All Other Helpers, Laborers, And Material Movers, Hand	98999	16	0.9	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Accountants and Auditors
Administrative Services Managers
Billing, Cost and Rate Clerks
Billing, Posting, and Calculating Machine Operators
Carpenters
Chemical Technicians and Technologists
Coating, Painting, and Spraying Machine Setters and Set-Up Operators
Computer Programmers
Computer Programmer Aides
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders
Cutting and Slicing Machine Setters and Set-Up Operators
Data Entry Keyers
Electricians
Electrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
File Clerks
Financial Managers
First Line Supervisor and Manager/ Supervisors-Clerical and Administrative Support Workers
First Line Supervisor and Manager/ Supervisors-Construction Trades and Extractive Workers
First Line Supervisor and Manager/ Supervisors-Helpers, Laborers, and Material Movers, Hand
First Line Supervisor and Manager/ Supervisors-Mechanics, Installers, and Repairers
Gardeners and Groundskeepers
Grinding, Lapping, and Buffing Machine Tool Setters and Set-Up Operators
Grinding, and Polishing Workers, Hand
Guards and Watch Guards
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Industrial Production Managers
Industrial Truck and Tractor Operators
Mechanical Engineers
Metal Molding, Coremaking, and Casting Machine Operators
Packaging and Filling Machine Operators and Tenders
Painters and Paperhangers
Payroll and Timekeeping Clerks
Personnel Clerks
Personnel, Training, and Labor Relations Managers
Personnel, Training, and Labor Relations Specialists
Precision Compositors, Typesetters, and Arrangers
Precision Etchers and Engravers, Hand or Machine
Precision Hand Workers, Jewelry and Related Products
Precision Inspectors, Testers, and Graders
Precision Molders, Shapers, Casters and carvers, Except Jewelry and Foundry
Printing Press Machine Setters and Set-Up Operators
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers
Production, Planning, and Expediting Clerks
Purchasing Managers
Receptionists and Information Clerks
Sales Representatives, Scientific and Related Products and Services
Sawing Machine Tool Setters and Set-Up Operators, Metal and Plastic
Sawing Machine Setters and Set-Up Operators
Sawing Machine Operators and Tenders
Sewing Machine Operators, Garment
Sheet Metal Workers
Solderers and Brazers
Stock Clerks, Stockroom, Warehouse or Storage Yard
Switchboard Operators
Tool and Die Makers

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Jewelers and Silversmiths
Machinists
Machinery Maintenance Mechanics
Machinery Maintenance Workers
Marketing, Advertising, and Public Relations Managers
Mechanic and Repairer Helpers
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
Typist
Typist, Word Processor
Woodworking Machine Setters and Set-Up Operators

SUMMARY
OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING

(SIC 20 - 23, 26 - 31)

There were 40,478 wage and salary workers employed in the nondurable goods manufacturing sector during the occupational survey period of the second quarter of 1983. The largest major occupational group was production, construction, operating, maintenance, and material handling with 30,403 workers representing over 75 percent of the total employment. This was followed by the clerical and administrative support group with 4,389 workers, or almost 11 percent and the managerial group with 2,166 employees or more than five percent of the total employment in the nondurable goods sector. The seven occupations employing the largest number of workers combined to make up almost 24 percent of the total estimated employment in nondurable goods manufacturing.

THE TWENTY OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	CODE	OCCUPATIONAL TITLE	EMPLOYMENT	PERCENT OF TOTAL
1	92723	Shoe Sewing Machine Operators and Tenders	2,071	5.1
2	98902	Hand Packers and Packagers	1,333	3.3
3	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	1,331	3.3
4	92717	Sewing Machine Operators, Garment	1,309	3.2
5	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	1,288	3.2
6	92705	Textile Machine Operators and Tenders-Winding, Twisting, Knitting, Weaving, and Cutting	1,174	2.9
7	19005	General Managers and Top Executives	1,116	2.8
8	98502	Machine Feeders and Offbearers	990	2.4
9	92956	Cementing and Gluing Machine Operators and Tenders	851	2.1
10	98700	Freight, Stock, and Material Movers, Hand	642	1.6
11	49008	Other Sales Representatives, Except Retail	615	1.5
12	92971	Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders	583	1.4
13	55347	General Office Clerks	564	1.4
14	55100	Secretaries	562	1.4
15	91905	Plastic Molding and Casting Machine Operators and Tenders	549	1.4
16	92974	Packaging and Filling Machine Operators and Tenders	531	1.3
17	85132	Maintenance Repairers, General Utility	496	1.2
18	93926	Cutters and Trimmers, Hand	491	1.2
19	92543	Printing Press Machine Operators and Tenders	473	1.2
20	92944	Cutting and Slicing Machine Operators and Tenders	449	1.1

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATION		40,478	100.0
MANAGERS AND ADMINISTRATIORS	10000-19999	2,166	5.4
Financial Managers	13002	116	0.3
Personnel, Training, And Labor Relations Managers	13005	69	0.2
Purchasing Managers	13008	52	0.1
Marketing, Advertising, And Public Relations	13011	130	0.3
Administrative Services Managers	13014	54	0.1
Industrial Production Managers	15014	408	1.0
General Managers And Top Executives	19005	1,116	2.8
All Other Managers And Administrators	19999	221	0.6
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICICAL OCCUPATIONS	20000-39999	1,764	4.4
Accountants And Auditors	21114	170	0.4
Budget Analysts	21117	16	*
All Other Financial Specialists	21199	20	0.1
Purchasing Agents And Buyers, Farm Products	21305	15	*
Purchasing Agents, Except Farm Products	21308	71	0.2
Personnel, Training, And Labor Relations Specialists	21511	46	0.1
Cost Estimators	21902	48	0.1
All Other Management Support Workers	21999	104	0.3
Chemical Engineers	22114	30	0.1
Electrical And Electronics Engineers	22126	29	0.1
Industrial Engineers, Except Safety	22128	89	0.2

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Safety Engineers, Except Mining	22132	11	*
Mechanical Engineers	22135	63	0.2
All other Engineers	22199	17	*
Industrial Engineering Technicians And Technologists	22508	11	*
Drafters	22514	47	0.1
All other Engineering And Related Technicians And Technologists	22599	33	0.1
Physicists And Astronomers	24102	10	*
Chemists	24105	52	0.1
All Other Physical Scientists	24199	3	*
Biological, Agricultural, And Food Technicians And Technologists, Except Health	24502	20	0.1
Chemical Technicians And Technologists, Except Health	24505	74	0.2
All Other Physical And Life Science Technicians And Technologists	24599	9	*
Systems Analysts, Electronic Data Processing	25102	31	0.1
Computer Programmers	25105	101	0.3
Computer Programmer Aides	25108	42	0.1
Health Practioners, Technologists, Technicians, And Related Health Occupations	32000	22	0.1
All Other Health Professionals, Paraprofessionals, And Technicians	32999	2	*
Writers And Editors	34002	190	0.5
Reporters And Correspondents	34011	174	0.4
Photographers	34023	14	*
Artists And Related Workers	34035	10	*
Designers	34038	160	0.4
All other Professional, Paraprofessional, And Technical Workers	39999	30	0.1
SALES OCCUPATIONS	40000-49999	1,208	3.0

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
First Line Supervisors And Manager/Supervisors-Sales And Related Occupations	41002	129	0.3
Sales Agents, Advertising	43023	93	0.2
Sales Engineers	49002	16	*
Sales Representatives, Scientific And Related Products And Services	49005	169	0.4
Other Sales Representatives	49008	615	1.5
Salespersons, Retail	49011	22	0.1
News And Street Vendors, Telephone Solicitors, Door To Door Sales Workers, And Other Related Workers	49026	13	*
All Other Sales And Related Workers	49999	151	0.4
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	4,389	10.8
First Line Supervisors And Manager/Supervisors-Clerical And Administrative Support Occupations	51002	200	0.5
Advertising Clerks	53908	33	0.1
Proofreaders And Copy Markers	53911	113	0.3
Secretaries	55100	562	1.4
Stenographers	55302	12	*
Receptionists And Information Clerks	55305	64	0.2
Typists	55308	122	0.3
Typists, Word Processor	55311	43	0.1
Personnel Clerks	55314	50	0.1
File Clerks	55321	40	0.1
Order Clerks	55323	169	0.4
Procurement Clerks	55326	40	0.1
Bookkeeping, Accounting, And Auditing Clerks	55338	408	1.0
Payroll And Timekeeping Clerks	55341	137	0.3
Billing, Cost And Rate Clerks	55344	135	0.3
General Office Clerks	55347	564	1.4

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Billing, Posting, And Calculating Machine Operators	56002	14	*
Mail Machine Operators, Preparation And Handling	56008	64	0.2
Computer Operators	56011	56	0.1
Peripheral EDP Equipment Operators	56014	10	*
Data Entry Keyers	56017	119	0.3
Data Keyers, Composing	56021	132	0.3
All Other Office Machine Operators	56099	5	*
Switchboard Operators	57102	55	0.1
Mail Clerks, Except Mail Machine Operators And Postal Service	57302	58	0.1
Production, Planning, And Expediting Clerks	58008	180	0.4
Weighers, Measurers, Checkers, And Samplers-Record Keeping	58017	28	0.1
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	305	0.8
Traffic, Shipping, And Receiving Clerks	58028	441	1.1
All other Material Recording, Scheduling, And Distributing Workers	58099	161	0.4
All Other Clerical And Administrative Support Workers	59999	69	0.2
SERVICE OCCUPATIONS	60000-69999	498	1.2
First Line Supvervisors And Manager/Supervisors-Service	61000	50	0.1
Guards And Watch Guards	63047	83	0.2
Food Beverage Preparation And Service Occupations	65000	14	*
Janitors And Cleaners	67005	294	0.7
Elevator Operators	67011	11	*
All other Cleaning And Building Service Workers, Except Private Households	67099	27	0.1

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Service Workers	69999	19	0.1
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	50	0.1
All Other Timber Cutting And Related Logging Workers	73099	8	*
All other Agricultural, Forestry, Fishing, And Related Workers	79999	42	0.1
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	30,403	75.1
First Line Supervisors And Manager/Supervisors-Mechanics, Installers And Repairers	81002	76	0.2
First Line Supervisors And Manager/Supervisors-Construction Trades And Extractive Workers	81005	27	0.1
First Line Supervisors, And Manager/Supervisors-Production And Operating Workers	81008	1,253	3.1
First Line Supervisors And Manager/Supervisors-Transportation And Material Moving Machine And Vehicle Occupations	81011	68	0.2
First Line Supervisors And Manager/Supervisors-Helpers, Laborers, And Material Movers, Hand	81017	88	0.2
Precision Inspectors, Testers, And Graders	83002	93	0.2
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	1,331	3.3

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machinery Maintenance Mechanics	85110	285	0.7
Machinery Maintenance Mechanics-Textile Machines	85112	137	0.3
Machinery Maintenance Mechanics-Sewing Machines	85113	52	0.1
Machinery Maintenance Mechanics-Water Or Power Generation Plant	85118	160	0.4
All Other Machinery Maintenance Mechanics	85119	122	0.3
Millwrights	85123	68	0.2
Machinery Maintenance Workers	85128	107	0.3
Maintenance Repairers, General Utility	85132	496	1.2
Automotive Mechanics	85302	28	0.1
Bus And Truck Mechanics, And Diesel Engine Specialists	85311	10	*
Precision Instrument Repairers	85905	34	0.1
Mechanical Control And Valve Installers And Repairers	85928	14	*
Riggers	85935	18	*
Coin And Vending Machine Servicers And Repairers	85947	30	0.1
Menders	85956	50	0.1
All other Mechanics, Installers And Repairers	85999	45	0.1
Carpenters	87102	36	0.1
Electricians	87202	144	0.4
Painters And Paperhangers	87402	105	0.3
Plumbers And Pipefitters	87502	97	0.2
All other Construction Trades Workers	87899	29	0.1
Tool And Die Makers	89102	138	0.3
Machinists	89108	232	0.6
Tool Grinders, Filers, Sharpeners, And Other Precision Grinders	89111	78	0.2
Sheet Metal Workers	89132	14	*
All Other Precision Metal Workers	89199	6	*
Precision Woodworkers	89300	23	0.1

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Fabric And Apparel Pattermakers, And Layout Workers	89502	47	0.1
Custom Tailors And Sewers	89505	25	0.1
Shoe And Leather Workers And Repairers-Precision	89511	338	0.8
Precision Dyers	89521	13	*
All other Precision Textile, Apparel, And Furnishings Workers	89599	60	0.1
Precision Compositors, Typesetters, And Arrangers	89702	124	0.3
Job Printers	89705	35	0.1
Precision Lithography And Photoengraving Workers	89708	248	0.6
Bookbinders	89711	32	0.1
All other Precision Printing Workers	89799	127	0.3
Bakers, Manufacturing	89805	30	0.1
All other Precision Food And Tobacco Workers	89899	22	0.1
Precision Detail Design Decorators And Painters	89911	35	0.1
All Other Precision Workers	89999	129	0.3
Press And Press Brake Machine Setters And Set-Up Operators, Metal And Plastic	91305	40	0.1
Rolling Machine Setters And And Set-Up Operators, Metal And Plastic	91314	11	*
Machine Forming Operators And Tenders, Metal And Plastic	91321	373	0.9
Combination Machine Tool Setters And Set-Up Operators, Metal And Plastic	91505	67	0.2
Combination Machine Tool Operators And Tenders, Metal And Plastic	91508	46	0.1
Plastic Molding And Casting Machine Setters And Set-Up Operators	91902	227	0.6
Plastic Molding And Casting Machine Operators And Tenders	91905	549	1.4

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	8	*
All Other Metal And Plastic Machine Operators And Tenders	92198	61	0.2
Offset Lithographic Press Setters And Set-Up Operators	92512	233	0.6
Letterpress Setters And Set-Up Operators	92515	80	0.2
Photoengraving And Lithographing Photographers	92521	74	0.2
Specialty Materials, Printing Machine Setters And Set-Up Operators	92522	98	0.2
Bindery Machine Setters And Set-Up Operators	92525	62	0.2
All other Printing Related Setters And Set-Up Operators	92529	47	0.1
Typesetting And Composing Machine Operators And Tenders	92541	149	0.4
Printing Press Machine Operators And Tenders	92543	473	1.2
Bindery Machine Operators	92546	156	0.4
All Other Printing, Binding, And Related Machine Operators And Tenders	92549	167	0.4
Textile Machine Setters And Set-Up Operators	92902	215	0.5
Textile Machine Operators And Tenders-Winding, Twisting, Knitting, Weaving, And Cutting	92705	1,174	2.9
Extruding And Forming Machine Operators And Tenders, Synthetic Or Glass Fibers	92708	39	0.1
Textile Draw-Out Machine Operators And Tenders	92711	63	0.2
Textile Bleaching And Dyeing Machine Operators And Tenders	92714	238	0.6

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Sewing Machine Operators, Garment	92717	1,309	3.2
Sewing Machine Operators, Non-Garment	92721	281	0.7
Shoe Sewing Machine Operators And Tenders	92723	2,071	5.1
Pressing Machine Operators And Tenders	92728	119	0.3
Paper Goods Machine Setters And Set-Up Operators	92914	367	0.9
Cooking Machine Operators And Tenders, Food And Tobacco	92917	39	0.1
Roasting, Baking, And Drying Machine Operators And Tenders, Food And Tobacco	92921	32	0.1
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	74	0.2
Boiler Operators And Tenders	92926	87	0.2
Dairy Processing Equipment Operators, Including Setters	92932	13	*
Chemical Equipment Controllers And Operators	92935	93	0.2
Chemical Equipment Tenders	92938	46	0.1
Cutting And Slicing Machine Setters And Set-Up Operators	92941	99	0.2
Cutting And Slicing Machine Operators And Tenders	92944	449	1.1
Coating, Painting, And Spraying Machine Setters And Set-Up Operators	92951	123	0.3
Coating, Painting, And Spraying Machine Operators And Tenders	92953	84	0.2
Cementing And Gluing Machine Operators And Tenders	92956	851	2.1
Cleaning, Washing, And Pickling Equipment Operators And Tenders	92958	12	*
Separating, Filtering, Clarifying, Precipitating, And Still Machine Operators And Tenders	92962	44	0.1

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	346	0.9
Extruding, Forming, Pressing, And Compacting Machine Setters And Set-Up Operators	92968	41	0.1
Extruding, Forming, Pressing, And Compacting Machine Operators And Tenders	92971	583	1.4
Packaging And Filling Machine Operators And Tenders	92974	531	1.3
All other Machine Setters And Set-Up Operators	92997	413	1.0
All Other Machine Operators And Tenders	92998	785	1.9
Welders And Cutters	93914	40	0.1
Pressers, Hand	93921	80	0.2
Sewers, Hand	93923	328	0.8
Cutters And Trimmers, Hand	93926	491	1.2
Portable Machine Cutters	93928	106	0.3
Meat, Poultry, And Fish Cutters And Trimmers, Hand	93938	139	0.3
Molders And Casters, Hand	93944	60	0.2
Painting, Coating, And Decorating Workers, Hand	93947	14	*
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	1,288	3.2
All Other Hand Workers	93999	1,375	3.4
Stationary Engineers	95032	46	0.1
All Other Plant And System Operators	95099	49	0.1
Truck Drivers, Heavy Or Tractor Trailer	97102	171	0.4
Truck Drivers, Light-Include Delivery And Route Workers	97105	129	0.3
Driver/Sales Workers	97117	275	0.7
All Other Motor Vehicle Operators	97199	16	*
Railroad Brake, Signal, And Switch Operators	97317	10	*
All Other Transportation And Related Workers	97899	10	*

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Crane And Tower Operators	97944	13	*
Industrial Truck And Tractor Operators	97947	305	0.8
Conveyor Operators And Tenders	97951	32	0.1
All Other Material Moving Equipment Operators	97999	61	0.2
Mechanic And Repairer Helpers	98102	49	0.1
Machine Feeders And Offbearers	98502	990	2.4
Freight, Stock, And Material Movers, Hand	98700	642	1.6
Hand Packers And Packagers	98902	1,333	3.3
Vehicle Washers And Equipment Cleaners	98905	39	0.1
All Other Helpers, Laborers, And Material Movers, Hand	98999	2,011	5.0

* Less than 0.05 percent

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
FOOD AND KINDRED PRODUCTS

(SIC 20)

This major group includes establishments manufacturing or processing foods and beverages for human consumption and certain related products, such as manufactured ice, chewing gum, - vegetable and animal fats and oils, and prepared feeds for animals and fowls.

During the survey month of June 1983 there were 2,849 wage and salary workers in the food and kindred products manufacturing group. This was a loss of 88 workers (or 3 percent) from a similar survey conducted three years earlier.

Our sample consisted of 48 units representing an employment of 2,745. Usable responses were received from 35 units or 73 percent of the units sampled. The reported employment was 2,166 or 79 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	98902	Hand Packers and Packagers	328
2	92974	Packaging and Filing Machine Operators and Tenders	286
3	97117	Driver/Sales Workers	250
4	93938	Meat, Poultry, and Fish Cutters and Trimmers-Hand	139
5	98700	Freight, Stock, and Material Movers, Hand	100
6	19005	General Managers and Top Executives	77
7	49008	Other Sales Representatives, Except Retail	76
8	55338	Bookkeeping, Accounting, and Auditing Clerks	74
9	81008	First Line Supervisors and Manager Supervisors-Production and and Operating Workers	72
10	92965	Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	67

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	68.6
2	55338	Bookkeeping, Accounting, and Auditing Clerks	62.9
3	92974	Packaging and Filling Machine Operators and Tenders	48.6
4	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	42.9
5	97117	Driver/Sales Workers	37.1

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL OCCUPATIONS		2,849	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	124	4.4				
Financial Managers	13002	10	0.4	24	12	8	14.3
Industrial Production Managers	15014	11	0.4	8	12	10	11.4
General Managers And Top Executives	19005	77	2.7	15	89	65	68.6
All Other Managers And Administrators	19999	26	0.9	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	85	3.0				
Accountants And Auditors	21114	14	0.5	26	18	10	20.0
All Other Financial Specialists	21199	8	0.3	NA	-	-	NA
All Other Management Support Workers	21999	21	0.7	NA	-	-	NA
All Other Engineers	22199	16	0.6	NA	-	-	NA
All Other Engineering And Related Technicians	22599	3	0.1	NA	-	-	NA
All Other Physical Scientists	24199	1	*	NA	-	-	NA
All Other Life Scientists	24399	1	*	NA	-	-	NA
All Other Physical And Life Science Technicians	24599	15	0.5	NA	-	-	NA
All Other Health Professionals And Technicians	32999	2	0.1	NA	-	-	NA
All Other Professional, Paraprofessional And Technical Workers	39999	4	0.2	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	120	4.2				
Other Sales Representatives Except Retail	49008	76	2.7	40	107	45	28.6
All Other Sales And Related Workers	49999	44	1.5	NA	-	-	NA

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	305	10.7				
First Line Supervisors And Manager/Supervisors	51002	14	0.5	8	15	13	11.4
Secretaries	55100	28	1.0	23	35	21	28.6
Bookkeeping, Accounting, And Auditing Clerks	55338	74	2.6	9	81	67	62.9
General Office Clerks	55347	53	1.9	24	66	40	28.6
Data Entry Keyers	56017	11	0.4	14	13	9	11.4
All Other Office Machine Operators	56099	16	0.6	NA	-	-	NA
Production, Planning, And Expediting Clerks	58008	21	0.7	16	24	19	8.6
Stock Clerks-Stockroom Warehouse Or Storage Yard	58023	12	0.4	25	15	9	11.4
Traffic, Shipping, And Receiving Clerks	58028	31	1.1	18	37	25	34.3
All Other Material Recording Scheduling & Dist. Workers	58099	6	0.2	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	39	1.3	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	29	1.0				
Janitors And Cleaners	67005	20	0.7	12	22	18	28.6
All Other Service Workers	69999	9	0.3	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	3	0.1	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	2,183	76.6				
First Line Supervisors And Manager/Supervisor, Mechanics Installers, And Repairers	81002	14	0.5	14	16	12	11.4
First Line Supervisors And Managers/Supervisors, Production And Operating Workers	81008	72	2.5	10	79	65	42.9

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
First Line Supervisors And Manager/Supervisors-Transportation & Material Moving Machine & Vehicle Occupations	81011	20	0.7	4	21	19	11.4
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	17	0.6	7	18	16	20.0
Machinery Maintenance Machanics	85110	31	1.1	12	35	27	20.0
Machinery Maintenance Workers	85128	14	0.5	22	17	11	8.6
Maintenance Repairers, General Utility	85132	22	0.8	16	26	18	22.9
Automotive Mechanics	85302	16	0.6	36	22	10	8.6
Coin & Vending Machine Servicers & Repairers	85947	30	1.1	42	42	18	11.4
All Other Mechanics, Repairers, And Installers	85999	53	1.9	NA	-	-	NA
All Other Construction Trades Workers	87899	39	1.3	NA	-	-	NA
Bakers, Manufacturing	89805	30	1.1	15	34	26	8.6
All Other Precision Food Workers	89899	52	1.8	NA	-	-	NA
Cooking Machine Operators And Tenders, Food	92917	39	1.3	14	45	33	20.0
Roasting, Baking, And Drying Machine Operators & Tenders	92921	32	1.1	19	38	26	11.4
Cutting & Slicing Machine Setters and Set-Up Operators	92941	48	1.7	5	50	46	20.0
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	92965	67	2.4	7	72	62	28.6
Packaging And Filling Machine Operators and Tenders	92974	286	10.0	19	339	233	48.6
All Other Machine Setters & Set-Up Operators	92997	25	0.9	NA	-	-	NA
All Other Machine Operators And Tenders	92998	32	1.1	NA	-	-	NA
Meat, Poultry, And Fish Cutters And Trimmers-Hand	93938	139	4.9	15	160	118	14.3
All Other Hand Workers	93999	18	0.6	NA	-	-	NA
All Other Plant & System Operators	95099	11	0.4	NA	-	-	NA

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Truck Drivers, Heavy Or Tractor Trailer	97102	46	1.6	17	54	38	28.6
Truck Drivers, Light-Include Delivery & Route Workers	97105	52	1.8	22	64	40	22.9
Driver/Sales Workers	97117	250	8.8	25	312	188	37.1
All Other Motor Vehicle Operators	97199	13	0.5	NA	-	-	NA
Industrial Truck And Tractor Operators	97947	54	1.9	7	58	50	28.6
All Other Material Moving Equipment Operators	97999	17	8.6	NA	-	-	NA
Freight, Stock, And Material Movers, Hand	98700	100	3.5	13	113	87	20.0
Hand Packers And Packagers	98902	328	11.5	7	350	306	31.4
Vehicle Washers And Equipment Cleaners	98905	39	1.3	12	44	34	11.4
All Other Helpers, Laborers, And Material Movers, Hand	98999	177	6.2	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Billing, Cost and Rate Clerks
Billing, Posting, and Calculating Machine Operators
Biological, Agricultural, and Food Technicians and Technologists, Except Health
Biological Scientists
Bus and Truck Mechanics and Diesel Engine Specialists
Cannery Workers
Carpenters
Chemical Technicians and Technologists, Except Health
Biological Scientists
Bus and Truck Mechanics and Diesel Engine Specialists
Cannery Workers
Carpenters
Chemical Technicians and Technologists, Except Health
Cleaning, Washing, and Pickling Equipment operators and Tenders
Compliance Officers and Enforcement Inspectors
Computer Operators
Computer Programmers
Conveyor Operators and Tenders
Cooling and Freezing Equipment Operators and Tenders
Cost Estimators
Dairy Processing Equipment Operators, Including Setters
Drafters
Electricians
Extruding, Forming, Pressing, and Compacting Machines Operators and Tenders
File Clerks
First Line Supervisors, and Manager/ Supervisors-Construction Trades and Extractive Workers
First Line Supervisors, and Manager/ Supervisors-Sales and Related Occupations
First Line Supervisors, and Manager/ Supervisors-Agricultural, Forestry, Fishing and Related Occupations
Food Batch Makers
Food and Beverage Preparation and Service Occupations
Graders and Sorters, Agricultural Products
Guards and Watch Guards
Heating, Air Conditioning, and Refrigeration
Merchanics and Installers
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Machine Feeder and Offbearers
Machinists
Marketing, Advertising and Public Relations Managers
Mechanical Engineers
Mechanical Control and Valve Installers and Repairers
Mechanic and Repairer Helpers
Mill Wrights
Order Clerks
Painters andPaperhangers
Payroll and Timekeeping Clerks
Personnel Clerks
Personnel, Training, and Labor Relations Managers
Personnel, Training, and Labor Relations Specialists
Plumbers and Pipefitters
Procurement Clerks
Pump Operators
Purchasing Agents and Buyers, Farm Products
Purchasing Agents-Except Wholesale, Retail and Farm Products
Purchasing Managers
Receptionists and Information Clerks
Safety Engineers, Except Mining
Salespersons, Retail
Sales Representatives, Scientific and Related Products and Service, Except Retail
Separating, Filtering Clarifying, Precipitating, and Still Machine Operators and Tenders
Sheet Metal Workers
Stationary Engineers
Switchboard Operators
Systems Analysts
Typists
Weighers, Measurers, Checkers, and Samplers-Recordkeeping

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
TEXTILE MILL PRODUCTS

(SIC 22)

This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine and cordage; (2) manufacturing broad woven fabric, narrow woven fabric, knot fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric and knot apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the intergrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, nonwoven fabrics and miscellaneous textiles.

During the survey month of April 1983 there were 3,862 wage and salary workers employed in the textile mill products industry, a loss of 1,023 jobs (or 21 percent) over the three year period since the previous survey of June 1980.

Our sample consisted of 41 units representing an employment of 4,051. Usable responses were received from 35 units or 85 percent of the units sampled. The reported employment was 3,063 or 76 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT
1	92705	Textile Machine Operators and Tenders-Winding, Twisting, Knitting, Weaving, and Cutting	1,027
2	92714	Textile Bleaching and Dyeing Machine Operators and Tenders	221
3	92702	Textile Machine Setters and Set-Up Operators	203
4	81008	First Line Supervisors and Manager/ Supervisors—Production and Operating Workers	188
5	92717	Sewing Machine Operators, Garment	150
6	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	138
7	85112	Machinery Maintenance Mechanics, Textile Machines	128
8	98502	Machine Feeders and Offbearers	113
9	19005	General Managers and Top Executives	96
10	92721	Sewing Machine Operators, Nongarment	83

THE SEVEN MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	77.1
2	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	74.3
3	92705	Textile Machine Operators and Tenders-Winding, Twisting, Knitting, Weaving, and Cutting	68.6
4	85132	Maintenance Repairers, General Utility	62.9
5	55100	Secretaries	60.0
	58028	Traffic, Shipping, and Receiving Clerks	60.0
	85112	Machinery Maintenance Mechanics, Textile Machines	60.0

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL OCCUPATIONS		3,862	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	146	3.8				
Industrial Production Mgrs.	15014	13	0.3	2	13	13	20.0
General Managers And Top Executives	19005	96	2.5	9	105	87	77.1
All Other Managers And All Other Managers And Administrators	19999	37	1.0	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	60	1.6				
Accountants And Auditors	21114	13	0.3	17	15	11	22.9
All Other Management Support Workers	21999	4	0.1	NA	-	-	NA
All Other Engineers	22199	8	0.2	NA	-	-	NA
All Other Engineering And Related Technicians	22599	6	0.2	NA	-	-	NA
All Other Physical Scientists	24199	3	0.1	NA	-	-	NA
Chemical Technicians & Technologists, Except Health	24505	15	0.4	36	20	10	8.6
All Other Professional, Paraprofessional And Technical Workers	39999	11	0.3	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	25	0.6				
Sales Representatives, Scientific & Related Products & Services	49005	11	0.3	35	15	7	11.4
Other Sales Representatives	49008	14	0.3	23	17	11	22.9

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	246	6.4				
First Line Supervisors And Manager/Supervisors	51002	12	0.3	11	13	11	8.6
Secretaries	55100	35	0.9	10	39	31	60.0
Bookkeeping, Accounting, And Auditing Clerks	55338	29	0.7	12	32	9	45.7
General Office Clerks	55347	41	1.1	11	46	36	45.7
All Other Office Machine Operators	56099	6	0.2	NA	-	-	NA
Production, Planning, And Expediting Clerks	58008	10	0.2	6	11	9	14.3
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	19	0.5	32	25	13	17.1
Traffic, Shipping, And Receiving Clerks	58028	39	1.0	9	43	35	60.0
All Other Material Recording Scheduling & Dist. Workers	58099	18	0.5	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	37	1.0	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	50	1.3				
Guards & Watch Guards	63047	14	0.4	9	15	13	11.4
Janitors & Cleaners	67005	35	0.9	8	38	32	42.9
All Other Cleaning And Building Service Workers	67099	1	*	NA	-	-	NA
AGRICULTURAL, FORESTRY FISHING, AND RELATED WORKERS	70000-79999	1	*	NA	-	-	NA

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	3,334	86.3				
First Line Supvrs. And Mgr/Supvrs. Production & Operating Wrks.	81008	188	4.9	9	205	171	74.3
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	138	3.6	16	160	116	40.0
Machinery Maintenance Mechanics, Textile Machines	85112	128	3.3	6	136	120	60.0
All Other Machinery Maintenance Mechanics	85119	25	0.6	NA	-	-	NA
Maintenance Repairers, General Utility	85132	61	1.6	4	64	58	62.9
All Other Mechanics, Repairers, And Installers	85999	43	1.1	NA	-	-	NA
Electricians	87202	19	0.5	2	19	19	22.9
All Other Const. Trades Workers	87899	11	0.3	NA	-	-	NA
All Other Precision Metal Workers	89199	3	0.1	NA	-	-	NA
Precision Dyers	89521	13	0.3	13	15	11	8.6
All Other Precision Textile, Apparel And Furnishings Workers	89599	57	1.5	NA	-	-	NA
Textile Machine Setters And Set-Up Operators	92702	203	5.3	12	228	178	40.0
Textile Machine Operators And Tenders-Winding, Twisting, Knitting, Weaving, And Cutting	92705	1,027	26.6	6	1089	965	68.6

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Textile Draw-Out Machine Operators And Tenders	92711	63	1.6	39	88	38	11.4
Textile Bleaching And Dyeing Machine Operators & Tenders	92714	221	5.7	13	251	191	31.4
Sewing Machine Operators, Garment	92717	150	3.9	29	194	106	8.6
Sewing Machine Operators, Non- Garment	92721	83	2.1	35	112	54	20.0
Boiler Operators, Low Pressure	92926	13	0.3	10	14	12	11.4
Cutting & Slicing Machine Operators And Tenders	92944	50	1.3	26	63	37	17.1
Crushing, Grinding, Mixing, And Blending Machine Operators	92965	28	0.7	2	28	28	11.4
All Other Machine Setters & Set-Up Operators	92997	3	0.1	NA	-	-	NA
All Other Machine Operators And Tenders	92998	137	3.6	NA	-	-	NA
All Other Hand Workers	93999	139	3.7	NA	-	-	NA
All Other Plant And System Operators	95099	13	0.3	NA	-	-	NA
All Other Motor Vehicle Operators	97199	3	0.1	NA	-	-	NA
Industrial Truck & Tractor Operators	97947	25	0.6	1	25	25	17.1
All Other Material Moving Equipment Operators	97999	29	0.7	NA	-	-	NA
Machine Feeders And Offbearers	98502	113	2.9	11	125	101	22.9
Freight, Stock, And Material Movers, Hand	98700	52	1.3	16	60	44	22.9
Hand Packers And Packagers	98902	26	0.7	12	29	23	14.3
All Other Helpers, Laborers, And Material Movers, Hand	98999	270	7.0	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Assemblers and Fabricators-Except Machine Electrical, Electronic and Precision
Automotive Mechanics
Billing, Cost and Rate Clerks
Carpenters
Carpet Cutters, Diagrammers, and Seamers
Chemists
Coating, Painting, and Spraying Setters and Set-Up Operators
Computer Operators
Computer Programmers
Computer Programmer Aides
Custom Tailors and Sewers
Cutting and Slicing Machine Setters and Set-Up Operators
Cutters and Trimmers, Hand
Designers
Drafters
Extruding and Forming Machine Operators and Tenders, Synthetic or Glass Fibers
Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders
Fabric and Apparel Patternmakers, and Layout Workers
File Clerks
Financial Managers
First Line Supervisors and Manager/Supervisors-Helpers, Laborers, and Material Movers, Hand
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Transportation and Material Moving Machine and Vehicle Occupations
Furnace, Kiln, Oven, Drier, or Kettle Operators and Tenders
Gardeners and Groundskeepers
Health Practitioners, Technologists, Technicians, and Related Health Occupations
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Laundry and Dry Cleaning Machine Operators and Tenders, Except Pressing
Machinists
Machinery Maintenance Workers
Machinery Maintenance Mechanics, Sewing Machines
Machinery Maintenance Mechanics, Water or Power Generation Plant
Marketing, Advertising and Public Relations Managers
Mechanic and Repairer Helpers
Menders
Millwrights
Order Clerks
Packaging and Filling Machine Operators
Painters and Paperhangers
Payroll and Timekeeping Clerks
Peripheral EDP Equipment Operators
Personnel Clerks
Personnel, Training, and Labor Relations Managers
Plumbers and Pipefitters
Portable Machine Cutters
Precision Inspectors, Testers, and Graders
Pressers, Hand
Pressing Machine Operators and Tenders
Procurement Clerks
Purchasing Agents and Buyers, Except Wholesale, Retail and Farm Products
Purchasing Managers
Receptionists and Information Clerks
Safety Engineers, Except Mining
Sewers, Hand
Shoe Sewing Machine Operators
Stationary Engineers
Switchboard Operators
Systems Analyst
Truck Drivers, Light
Typists

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

This major group, known as the cutting-up and needles trades, includes establishments producing clothing and fabricating by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs.

There were 2,800 wage and salary workers employed in the apparel industry during the month of May 1983. This represents a drop of 80 workers, or approximately 3 percent from a similar survey during the same survey period of 1980.

Our sample consisted of 40 units representing an employment of 2,693. Usable responses were received from 28 units or 70 percent of the units sampled. The reported employment was 2,052 or 76 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	92717	Sewing Machine Operators, Garment	1,159
2	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	122
3	92705	Textile Machine Operators and Tenders-Winding, Twisting, Knitting, Weaving and Cutting	115
4	98700	Freight, Stock and Material Movers, Hand	87
5	92728	Pressing Machine Operators and Tenders-Textile, Garment and Related Materials	85
6	19005	General Managers and Top Executives	68
7	93921	Pressers, Hand	64
8	93926	Cutters and Trimmers, Hand	63
9	92721	Sewing Machine Operators, Nongarment	61
10	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	50

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	92717	Sewing Machine Operators, Garment	85.7
2	19005	General Managers and Top Executives	75.0
3	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	67.8
4	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	60.7
5	55347	General Office Clerks	50.0
	85113	Machinery Maintenance Mechanics, Sewing Machines	50.0

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		2,800	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	121	4.4				
Administrative Services Managers	13014	18	0.6	22	22	14	10.7
Industrial Production Managers	15014	16	0.6	21	19	13	10.7
General Managers And Top Executives	19005	68	2.5	7	73	63	75.0
All Other Managers And Administrators	19999	19	0.7	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL TECHNICAL OCCUPATIONS	20000-39999	43	1.6				
All Other Financial Specialists	21199	8	0.3	NA	-	-	NA
All Other Management Support Workers	21999	8	0.3	NA	-	-	NA
All Other Engineers	22199	9	0.3	NA	-	-	NA
Designers	34038	10	0.4	30	13	7	14.2
All Other Professional, Para-Professional & Technical Workers	39999	8	0.3	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	83	2.9				
Other Sales Representatives, Except Retail	49008	26	0.9	16	30	22	14.2
All Other Sales & Related Workers	49999	57	2.0	NA	-	-	NA
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	221	7.9				
Secretaries	55100	21	0.8	11	23	19	35.7
Bookkeeping, Accounting, & Auditing Clerks	55338	15	0.5	19	18	12	25.0

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Payroll & Timekeeping Clerks	55341	27	1.0	17	31	23	28.5
General Office Clerks	55347	31	1.1	13	35	27	50.0
All Other Office Machine Operators	56099	16	0.6	NA	-	-	NA
Traffic, Shipping & Receiving Clerks	58028	14	0.5	11	15	13	42.8
All Other Material Recording, Scheduling & Distributing Workers	58099	46	1.6	NA	-	-	NA
All Other Clerical & Administrative Support Workers	59999	51	1.8	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	38	1.3				
Janitors and Cleaners	67005	21	0.7	8	23	19	35.7
All Other Service Workers	69999	17	0.6	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	2,294	81.9				
First Line Supervisors & Managers/Supervisors-Production & Operating Workers	81008	50	1.8	15	57	43	60.7
Production Inspectors, Testers, Graders, Sorters, Samplers & Weighers	83005	122	4.4	22	149	95	67.8
Machinery Maintenance Mechanics, Sewing Machines	85113	27	1.0	10	30	24	50.0
All Other Machinery Maintenance Mechanics	85119	6	0.2	NA	-	-	NA
All Other Mechanics, Installers & Repairers	85999	40	1.5	NA	-	-	NA
Fabric & Apparel Patternmakers, & Layout Workers	89502	23	1.0	19	27	19	21.4
Custom Tailors & Sewers	89505	10	0.3	15	11	9	10.7
All Other Precision Textile, Apparel & Furnishings Workers	89599	9	0.3	NA	-	-	NA
Textile Machine Operators & Tenders-Winding, Twisting, Kniting, Weaving & Cutting	92705	115	4.1	25	144	86	14.2

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Sewing Machine Operators, Garment	92717	1,159	41.4	11	1,282	1,036	85.7
Sewing Machine Operators, non-Garment	92721	61	2.2	25	76	46	14.2
Pressing Machine Operators & Tenders-Textile, Garment & Related Materials	92728	85	3.0	15	98	72	35.7
All Other Machine Operators & Tenders	92998	63	2.2	NA	-	-	NA
Pressers, Hand	93921	64	2.2	12	72	56	25.0
Cutters & Trimmers, Hand	93926	63	2.2	17	73	53	25.0
Portable Machine Cutters	93928	43	1.6	12	48	38	39.2
All Other Hand Workers	93999	85	3.0	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	11	0.3	24	14	8	10.7
All Other Motor Vehicle Operators	97199	5	0.1	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	3	0.1	NA	-	-	NA
Machine Feeders & Offbearers	98502	10	0.3	24	12	8	10.7
Freight, Stock & Material Movers, Hand	98700	87	3.1	18	102	72	32.1
Hand Packers & Packagers	98902	27	1.0	18	32	22	21.4
All Other Helpers, Laborers & Movers Hand	98999	126	4.6	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Accountants and Auditors
- Assemblers and Fabricators Except Machine, Electrical, Electronic and Precision
- Billing, Cost and Rate Clerks
- Budget Analysts
- Computer Operators
- Computer Programmers
- Computer Programmer Aides
- Cost Estimators
- Cutting and Slicing Machine Setters and Set-Up Operators
- Cutting and Slicing Machine Operators and Tenders
- Data Entry Keyers
- Elevator Operators
- Financial Managers
- First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations
- First Line Supervisors and Manager/Supervisors-Helpers, Laborers, and Material Movers, Hand
- First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
- Food and Beverage Preparation and Service Occupations
- Furnace, Kiln, Oven, or Kettle Operators and Tenders
- Guards and Watch Guards
- Industrial Engineers, Except Safety
- Industrial Engineering Technicians and Technologist
- Industrial Truck and Tractor Operators
- Maintenance Mechanics, Textile Machines
- Maintenance Repairers, General Utility
- Marketing, Advertising, and Public Relations Managers
- Marking Clerks
- Menders
- Order Clerks
- Personnel, Training, and Labor Relations Managers
- Personnel, Training, and Labor Relations Specialists
- Pressers
- Production, Planning and Expediting Clerks
- Purchasing Managers
- Receptionists and Information Clerks
- Sales Representatives, Scientific and Related Products and Services
- Sewers, Hand
- Stenographers
- Stock Clerks, Stockroom, Warehouse/Storage Yard
- Switchboard Operators
- Systems Analysts
- Textile Machine Setters and Set-Up Operators
- Textile Bleaching and Dyeing Machine Operators and Tenders
- Truck Drivers, Heavy
- Typists

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
PAPER AND ALLIED PRODUCTS

(SIC 26)

This major group includes establishments primarily engaged in the manufacturing of pulps from wood and other cellulose fibers, and from rags; the manufacturing of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes, and envelopes.

There were 5,320 wage and salary workers in the paper and allied products industries during the survey month of April 1983 which represents a decrease of 1,149 jobs or 18 percent from the estimated employment during the same month of 1980.

Our sample consisted of 42 units representing an employment of 5,869. Usable responses were received from 32 units or 76 percent of the units sampled. The reported employment was 4,227 or 72 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT
1	92914	Paper Goods Machine Setters and Set-Up Operators	348
2	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	309
3	98502	Machine Feeders and Offbearers	225
4	92944	Cutting and Slicing Machine Operators and Tenders	164
5	85132	Maintenance Repairers, General Utility	156
6	85118	Machinery Maintenance Mechanics, Water or Power Generation Plant	151
7	49008	Other Sales Representatives, Except Retail	150
8	97947	Industrial Truck and Tractor Operators	116
9	19005	General Managers and Top Executives	112
10	98700	Freight, Stock, and Material Movers, Hand	96

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	81008	First Line, Supervisors and Manager/Supervisors-Production and Operating Workers	87.5
2	19005	General Managers and Top Executives	84.4
3	55100	Secretaries	71.9
4	67005	Janitors and Cleaners	68.8
5	58028	Traffic, Shipping, and Receiving Clerks	59.4
	85132	Maintenance Repairers, General Utility	59.4

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		5,320	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	192	3.6				
Marketing, Advertising, And Public Relations Managers	13011	12	0.2	26	15	9	9.4
Industrial Production Managers	15014	35	0.7	28	45	25	12.5
General Managers And Top Executives	19005	112	2.1	11	124	100	84.4
All Other Managers And Administrators	19999	33	0.6	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL & TECHNICAL OCCUPATIONS	20000-39999	159	3.0				
Accountants & Auditors	21114	26	0.5	11	29	23	40.6
Purchasing Agents	21308	24	0.4	12	27	21	40.6
All Other Management Support Workers	21999	40	0.8	NA	-	-	NA
All other Engineers	22199	31	0.6	NA	-	-	NA
All other Engineering & Related Technicians & Technologists	22599	8	0.1	NA	-	-	NA
All Other Physical Scientists	24199	5	0.1	NA	-	-	NA
All Other Physical & Life Science Technicians & Technologists	24599	3	0.1	NA	-	-	NA
All Other Professional, Para-professional & Technical Workers	39999	22	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	193	3.6				
Other Sales Representatives	49008	150	2.8	25	188	112	46.9
All Other Sales & Related Workers	49999	43	0.8	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	437	8.2				
First Line, Supervisors And Manager/Supervisors	51002	22	0.4	0	22	22	9.4

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT' FIRMS REPORT
Secretaries	55100	60	1.1	10	66	54	71.9
Bookkeeping, Accounting And Auditing Clerks	55338	35	0.7	16	41	29	53.1
Billing, Cost & Rate Clerks	55344	28	0.5	21	34	22	12.5
General Office Clerks	55347	59	1.1	23	72	46	46.9
All Other Office Machine Operators	56099	11	0.2	NA	-	-	NA
Production, Planning, & Expediting Clerks	58008	30	0.6	23	37	23	15.6
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	31	0.6	18	37	25	15.6
Traffic, Shipping, And Receiving Clerks	58028	54	1.0	10	60	48	59.4
All Other Material Recording, Scheduling & Dist. Workers	58099	7	0.1	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	100	1.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	109	2.0				
Guards And Watch Guards	63047	43	0.8	8	46	40	18.8
Janitors And Cleaners	67005	55	1.0	6	58	52	68.8
All Other Cleaning & Bldg. Service Workers, Except Private Households	67099	5	0.1	NA	-	-	NA
All Other Service Workers	69999	6	0.1	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	40	0.8	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	4,190	78.8				
First Line Supvrs. & Mgr./ Supvrs. Mechanics & Repairers	81002	31	0.6	9	34	28	9.4
First Line Supvrs. & Mgr/ Supvrs.-Production & Operating Workers	81008	309	5.8	3	319	299	87.5
Machinery Maintenance Mechanics, Water Or Power Generation Plant	85118	151	2.8	7	162	140	34.4

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Machinery Maintenance Mechanics	85119	81	1.5	NA	-	-	NA
Machinery Maintenance Workers	85128	40	0.8	21	48	32	9.4
Maintenance Repairers, General Utility	85132	156	2.9	16	180	132	59.4
All Other Mechanics, Installers, And Repairers	85999	63	1.2	NA	-	-	NA
Electricians	87202	40	0.8	0	40	40	9.4
All Other Construction Trades Workers	87899	87	1.6	NA	-	-	NA
All Other Precision Metal Workers	89199	30	0.6	NA	-	-	NA
All Other Precision Workers	89999	477	9.0	NA	-	-	NA
All Other Printing Related Setters And Set-Up Operators	92529	109	2.0	NA	-	-	NA
Printing Press Machine Operators	92543	73	1.4	11	81	65	28.1
All Other Printing, Binding & Related Machine Operators & Tenders	92549	13	0.2	NA	-	-	NA
Paper Goods Machine Setters & Set-Up Operators	92914	348	6.5	9	381	315	37.5
Cutting & Slicing Machine Operators & Tenders	92944	164	3.1	19	196	132	53.1
Coating, Painting, And Spraying Machine Operators & Tenders	92953	46	0.9	31	60	32	25.0
Cementing & Gluing Machine Operators & Tenders	92956	25	0.5	9	27	23	18.8
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	37	0.7	0	37	37	9.4
Packaging & Filling Machine Operators & Tenders	92974	57	1.1	10	63	51	12.5
All Other Machine Setters And Set-Up Operators	92997	100	1.9	NA	-	-	NA
All Other Machine Operators And Tenders	92998	479	9.0	NA	-	-	NA
Cutters & Trimmers, Hand	93926	26	0.5	14	30	22	9.4
All Other Hand Workers	93999	81	1.5	NA	-	-	NA
All Other Plant & System Operators	95099	68	1.3	NA	-	-	NA
Truck Drivers, Heavy Or Tractor Trailer	97102	62	1.2	3	64	60	34.4
Truck Drivers, Light-Include Delivery & Route Workers	97105	11	0.2	21	13	9	25.0

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Transportation And Related Workers	97899	26	0.5	NA	-	-	NA
Industrial Truck & Tractor Operators	97947	116	2.2	9	126	106	43.8
All other Material Moving Equipment Operators	97999	41	0.8	NA	-	-	NA
Machine Feeders & Offbearers	98502	225	4.2	30	293	157	43.8
Freight, Stock, & Material Movers, Hand	98700	96	1.8	9	104	88	46.9
Hand Packers And Packagers	98902	86	1.6	19	103	69	34.4
All Other Helpers, Laborers, And Material Movers, Hand	98999	436	8.1	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 35 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Assemblers and Fabricators, Except Machine, Electrical, Electronic and and Precision
Automotive Mechanics
Boilermakers
Boiler Operators, Low Pressure
Bus and Truck Mechanics and Diesel Engine Specialists
Carpenters
Chemical Engineers
Chemical Equipment Controllers and Operators
Chemical Plant and System Operators
Chemists
Cleaning, Washing, and Pickling Equipment Operators
Computer Operators
Computer Programmers
Computer Programmer Aides
Conveyor Operators and Tenders
Cost Estimators
Crane and Tower Operators
Cutting and Slicing Machine Setters and Set-Up Operators
Data Entry Keyers
Drafters
Electrical and Electronic Engineers
Electrical and Electronic Engineering Technicians and Technologists
Extruding, Forming, Pressing, and Compacting Machine Setters and Set-Up Operators
Extruding, Forming, Pressing and Compacting Machine Operators and Tenders
File Clerks
Financial Managers
First Line Supervisors and Manager/Supervisors-Construction Trades
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/Supervisors-Service
First Line Supervisors and Manager/Supervisors-Transportation
Gardeners and Groundskeepers
Health Practitioners, Technologists, and Technicians
Hoist and Winch Operators
Industrial Engineers, Except Safety
Logging Tractor Operators
Machinists
Mechanical Engineers
Mechanic and Repairer Helpers
Millwrights
Order Clerks
Painters and Paperhangers
Payroll and Timekeeping Clerks
Personnel Clerks
Personnel, Training, and Labor Relations Managers
Personnel, Training and Labor Relations Specialists
Photoengraving, and Lithographing Photographers
Plumbers and Pipefitters
Power Distributors and Dispatchers
Precision Compositors, Typesetters, and Arrangers
Precision Instrument Repairers
Printing Press Machine Setters and Set-Up Operators
Procurement Clerks
Production Inspectors, Testers, Graders, Sorters and Weighers
Purchasing Managers
Rail Yard Engineers, Dinkey Operators and Hostlers
Railroad Brake, Signal, and Switch Operators
Receptionists and Information Clerks
Riggers
Sales Representatives, Scientific and Related Products and Services
Separating, Filtering, Clarifying, Precipitating, and Still Machine Operators and Tenders
Specialty Materials Printing Machine Setters and Set-Up Operators
Stationary Engineers
Stenographers
Switchboard Operators
Systems Analysts
Tool and Die Makers
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
Typists
Water and Liquid Waste Treatment Plant Operators
Weighers, Measurers, Checkers and Samplers-Recordkeeping
Welders and Cutters

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
PRINTING, PUBLISHING AND ALLIED INDUSTRIES

(SIC 27)

This major group included establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and electrotyping. This major group also includes establishments engaged in publishing newspapers, books and periodicals, regardless of whether or not they do their own printing.

There were 6,812 wage and salary workers in the printing and publishing industries during the survey month of May 1983. This represents an increase of 569 workers or a 9 percent growth in employment from the same survey period three years earlier.

Our sample consisted of 102 units representing an employment of 5,580. Usable responses were received from 73 units or 72 percent of the units sampled. The reported employment was 4,212 or 75 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	92543	Printing Press Machine Operators and Tenders	343
2	19005	General Managers and Top Executives	303
3	89708	Precision Lithography and Photo-engraving Workers	248
4	92512	Offset Lithographic Press Setters and Set-Up Operators	233
5	49008	Other Sales Representatives	227
6	55347	General Office Clerks	197
7	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	196
8	34002	Writers and Editors	190
9	55100	Secretaries	182
10	34011	Reporters and Correspondents	172

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	46.2
2	55100	Secretaries	31.8
	55338	Bookkeeping, Accounting and Auditing Clerks	31.8
4	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	29.5
5	55347	General Office Clerks	24.2

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		6,812	100.00				
MANAGERS AND ADMINISTRATORS	10000-19999	474	6.9				
Financial Managers	13002	18	0.3	18	21	15	6.1
Personnel, Training & Labor Relations Managers	13005	10	0.1	24	12	8	5.3
Marketing, Advertising, And Public Relations Managers	13011	49	0.7	16	24	8	7.6
Industrial Production Managers	15014	26	0.4	25	32	20	6.8
General Managers And Top Executives	19005	303	4.4	12	339	267	46.2
All Other Managers And Administrators	19999	68	1.0	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL & TECHNICAL OCCUPATIONS	20000-39999	665	9.8				
Accountants & Auditors	21114	42	0.6	28	54	30	6.1
All Other Financial Specialists	21199	4	0.1	NA	-	-	NA
Purchasing Agents	21308	10	0.1	30	13	7	6.1
Cost Estimators	21902	11	0.1	46	16	6	3.8
All Other Management Support Workers	21999	18	0.3	NA	-	-	NA
All Other Engineers	22199	24	0.4	NA	-	-	NA
All Other Engineering & Related Technicians & Technologists	22599	9	0.1	NA	-	-	NA
Computer Programmers	25105	52	0.8	25	65	39	6.8
Writers And Editors	34002	190	2.8	9	207	173	16.7
Reporters & Correspondents	34011	172	2.5	12	192	152	8.3
Photographers	34023	14	0.2	33	19	9	3.0
Artists and Related Workers	34035	10	0.1	40	14	6	2.8
Designers	34038	88	1.3	4	92	84	2.3
All Other Professional, Para-Professional & Technical Workers	39999	21	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	509	7.5				
First Line Supervisors and Manager/Supervisors-Sales	41002	52	0.7	48	77	27	3.8
Sales Agents, Advertising	43023	93	1.4	25	116	70	4.5

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Sales Representatives, Scientific And Related Products & Services	49005	64	0.9	32	84	44	7.6
Other Sales Representatives	49008	227	3.3	20	272	182	22.0
All Other Sales & Related Workers	49999	73	1.2	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	1,391	20.4				
First Line Supervisors And Manager/Supervisors	41002	22	0.3	13	25	19	5.3
Advertising Clerks	53908	33	0.5	47	48	18	2.3
Proofreaders & Copy Markers	53911	113	1.7	19	135	91	18.9
Secretaries	55100	182	2.7	13	205	159	31.8
Receptionists & Information Clerks	55305	11	0.2	30	14	8	5.3
Typists	55308	49	0.7	18	58	40	8.3
Typists, Word Processor	55311	32	0.5	42	45	19	6.1
Order Clerks	55323	27	0.4	11	30	24	3.8
Bookkeeping, Accounting And Auditing Clerks	55338	134	2.0	15	155	113	31.8
Payroll & Timekeeping Clerks	55341	10	0.1	30	13	7	5.3
Billing, Cost & Rate Clerks	55344	22	0.3	28	28	16	5.3
General Office Clerks	55347	197	2.9	12	220	174	24.2
Mail Machine Operators	56008	64	0.9	46	93	35	5.3
Computer Operators	56011	22	0.3	26	28	16	3.8
Data Entry Keyers	56017	36	0.5	9	39	33	6.8
Data Keyers, Composing	56021	132	1.9	20	158	106	10.6
All Other Office Machine Operators	56099	17	0.3	NA	-	-	NA
Switchboard Operators	57102	11	0.2	26	14	8	4.5
Mail Clerks, Except Mail Machine Operators & Postal Service	57302	58	0.8	14	66	52	9.1
Production, Planning, & Expediting Clerks	58008	42	0.6	24	52	32	6.1
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	22	0.3	24	27	17	6.8
Traffic, Shipping, & Receiving Clerks	58028	102	1.5	8	110	94	18.9
All Other Material Recording, Scheduling, & Distribution Workers	58099	4	0.1	NA	-	-	NA
All Other Clerical & Administrative Support Workers	59999	49	0.7	NA	-	-	NA

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
SERVICE OCCUPATIONS	60000-69999	81	1.2				
Janitors & Cleaners	67005	52	0.8	13	59	45	13.6
All Other Cleaning & Buildings Service Workers, Except Private Households	67099	12	0.2	NA	-	-	NA
All Other Service Workers	69999	17	0.2	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	2	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	3,690	54.2				
First Line Supervisors And Managers/Supervisors-Production & Operating Workers	81008	196	2.9	19	232	160	29.5
Maintenance Repairers, General Utility	85132	60	0.9	37	82	38	6.8
All Other Mechanics, Installers, And Repairers	85999	30	0.4	NA	-	-	NA
All Other Construction Trades Workers	87899	10	0.1	NA	-	-	NA
All other Precision Metal Workers	89199	18	0.3	NA	-	-	NA
Precision Compositors, Typesetters and Arrangers	89702	121	1.8	36	165	77	8.3
Precision Lithography And Photoengraving Workers	89708	248	3.6	13	281	215	15.9
Bookbinders	89711	32	0.5	42	45	19	3.8
All Other Precision Printing Workers	89799	162	2.3	NA	-	-	NA
All Other Precision Workers	89999	175	2.6	NA	-	-	NA
Offset Lithographic Press Setters & Set-Up Operators	92512	233	3.4	33	311	155	12.9
Letterpress Setters And Set-Up Operators	92515	80	1.2	32	106	54	6.1
Photoengraving & Lithographing Photographers	92521	63	0.9	22	77	46	12.1
All Other Printing Related Setters And Set-Up Operators	92529	107	1.6	NA	-	-	NA
Typesetting & Composing Machine Operators & Tenders	92541	149	2.2	26	188	110	21.9
Printing Press Machine Operators And Tenders	92543	343	5.0	33	456	230	12.1

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	LOW	PERCENT FIRMS REPORT
Bindery Machine Operators	92546	156	2.3	18	185	127	9.1
All Other Printing, Binding, And Related Machine Operators And Tenders	92549	153	2.3	NA	-	-	NA
Paper Goods Machine Setters And Set-Up Operators	92914	19	0.3	21	23	15	2.3
All other Machine Setters And Set-Up Operators	92997	37	0.6	NA	-	-	NA
All Other Machine Operators And Tenders	92998	97	1.4	NA	-	-	NA
All Other Hand Workers	93999	488	7.2	NA	-	-	NA
All Other Motor Vehicle Operators	97199	36	0.5	NA	-	-	NA
All Other Transportation And Related Workers	97899	14	0.2	NA	-	-	NA
Industrial Truck and Tractor Operators	97947	26	0.4	50	39	13	2.3
Machine Feeders and Offbearers	98502	315	4.6	37	430	200	4.5
Freight, Stock, And Material Movers, Hand	98700	70	1.0	28	90	50	9.8
All Other Helpers, Laborers, And Material Movers, Hand	98999	252	3.7	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Billing, Posting, and Calculating Machine Operators
Bindery Machine Setters and Set-Up Operators
Bookbinders
Budget Analysts
Cashiers
Cement and Gluing Machine Operators and Tenders
Computer Programmer Aides
Cutting and Slicing Machine Operators and Tenders
Cutters and Trimmers, Hand
Drafters
Driver/Sales Workers
Duplicating Machine Operators
Electricians
File Clerks
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/Supervisors-Service
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Transportation
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand
Food and Beverage Preparation and Service Occupations
Gardeners and Groundskeepers
Guards and Watch Guards
Hand Packers and Packagers
Health Practitioners, Technologists, Technicians, and Related Occupations
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Interviewing Clerks, Except Personnel and Social Welfare
Job Printers
Librarians, Professional
Machinists
Machinery Maintenance Mechanics
Machine Feeder and Offbearers
Mechanic and Repairer Helpers
Mechanical Engineers
Messengers
News and Street Venders, Telephone Solicitors, Door-to-Door Sales Workers and Other Related Workers
Packaging and Filling Machine Operators and Tenders
Painters and Paperhangers
Personnel Clerks
Personnel, Training, and Labor Relations Specialists
Peripheral EDP Equipment Operators
Photoengraving and Lithographing Machine Operators and Tenders
Plumbers and Pipefitters
Precision Detail Design Decorators and Painters
Precision Photographic Process Workers
Procurement Clerks
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers
Public Relations Specialists and Publicity Writers
Purchasing Managers
Screen Printing Machine Setters and Set-Up Operators
Specialty Materials Printing Machine Setters and Set-Up Operators
Systems Analysts
Technical Writers
Truck Drivers, Heavy
Truck Drivers, Light
Weighers, Measurers, Checkers, and Samplers-Recordkeeping

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
FABRICATED RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED

(SIC 306)

Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries.

During the survey month of June 1983 there were 1,279 wage and salary workers employed in this industry. Compared to a similar survey which was conducted in 1980, this represents a gain of 102 jobs or 9 percent.

Our sample consisted of 15 units representing an employment of 1,277. Usable responses were received from 11 units or 73 percent of the units sampled. The reported employment was 1,182 or 93 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	210
2	92971	Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders	121
3	92944	Cutting and Slicing Machine Operators and Tenders	88
4	93926	Cutters and Trimmers, Hand	78
5	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	69
6	92923	Furnace, Kiln, Oven, Drier, or Kettle Operators and Tenders	59
7	92965	Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	35
8	89108	Machinists	22
9	85110	Machinery Maintenance Mechanics	21
10	19005	General Managers and Top Executives	20

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	72.7
2	19005	General Managers and Top Executives	63.6
3	55100	Secretaries	54.5
	67005	Janitors and Cleaners	54.5
	89108	Machinists	54.5

STAFFING PATTERNS

FABRICATED RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED

(SIC 306)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		1,279	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	41	3.2				
General Managers And Top Executives	19005	20	1.6	14	24	16	63.6
All Other Managers And Administrators	19999	21	1.6	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	39	3.0				
All Other Financial Specialists	21199	6	0.5	NA	-	-	NA
All Other Management Support Workers	21999	5	0.4	NA	-	-	NA
All Other Engineers	22199	11	0.8	NA	-	-	NA
All Other Engineering And Related Technicians And Technologists	22599	3	0.2	NA	-	-	NA
All Other Physical Scientists	24199	2	0.1	NA	-	-	NA
All Other Physical And Life Science Technicians And Technologists	24599	6	0.5	NA	-	-	NA
All Other Professional, Paraprofessional, And Technical Workers	39999	6	0.5	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	12	0.9	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	73	5.7				
Secretaries	55100	11	0.9	16	13	9	54.5
All Other Office Machine Operators	56099	4	0.3	NA	-	-	NA
Production, Planning, And Expediting Clerks	58008	10	0.8	3	10	10	36.4
All Other Material Recording, Scheduling, And Distribution Workers	58099	15	1.1	NA	-	-	NA

STAFFING PATTERNS

FABRICATED RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED

(SIC 306)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
All Other Clerical And Administrative Support Workers	59999	33	2.6	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	16	1.3				
Janitors And Cleaners	67005	13	1.0	6	14	12	54.5
All Other Cleaning And Building Service Workers, Except Private Households	67099	3	0.3	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	1	0.1	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	1,097	85.8				
First Line Supervisors And Manager/Supervisors-Production And Operating Workers	81008	69	5.4	21	83	55	72.7
Production Inspectors, Testers Graders, Sorters, Samplers, And Weighers	83005	210	16.4	7	224	196	45.5
Machinery Maintenance Mechanics	85110	21	1.6	16	24	18	36.4
Maintenance Repairers, General Utility	85132	18	1.4	13	20	16	36.4
All Other Mechanics, Installers And Repairers	85999	6	0.5	NA	-	-	NA
All other Construction Trades Workers	87899	15	1.2	NA	-	-	NA
Machinists	89108	22	1.7	5	23	21	54.5
All Other Precision Metal Workers	89199	19	1.5	NA	-	-	NA
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	9	0.7	NA	-	-	NA
All other Metal And Plastic Machine Operators And Tenders	92198	24	1.9	NA	-	-	NA
All Other Printing, Binding, and Related Operators And Tenders	92549	15	1.2	NA	-	-	NA
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	59	4.6	0	59	59	27.3

STAFFING PATTERNS

FABRICATED RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED

(SIC 306)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Cutting and Slicing Machine Operators And Tenders	92944	88	6.9	19	105	71	27.3
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	35	2.7	26	44	26	36.4
Extruding, Forming, Pressing, And Compacting Machine Operators And Tenders	92971	121	9.5	8	131	111	36.4
All Other Machine Setters And Set-Up Operators	92997	13	1.0	NA	-	-	NA
All Other Machine Operators And Tenders	92998	80	6.3	NA	-	-	NA
Cutters And Trimmers, Hand	93926	78	6.1	1	136	134	36.4
All Other Hand Workers	93999	135	10.6	NA	-	-	NA
All Other Motor Vehicle Operators	97199	8	0.6	NA	-	-	NA
Industrial Truck And Tractor Operators	97947	10	0.8	8	11	9	27.3
Freight, Stock, And Material Movers, Hand	98700	11	0.8	8	12	10	27.3
All Other helpers, Laborers, And Material Movers, Hand	98999	31	2.4	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "all" or "all other" category.

- Accountants and Auditors
- Assemblers, and Fabricators, Except Machine, Electrical Electronic & Precision
- Automotive Mechanics
- Billing, Cost and Rate Clerks
- Boiler Operators, Low Pressure
- Bookkeeping, Accounting and Auditing Clerks
- Bus and Truck Mechanics and Diesel Engine Specialists
- Carpenters
- Chemical Equipment Tenders
- Chemical Engineers
- Chemical Engineering Technicians and Technologists
- Chemists
- Computer Operators
- Computer Programmers
- Computer Programmer Aides
- Cost Estimators
- Cutting and Slicing Machine Setters and Set-up Operators
- Data Entry Keyers
- Drafters
- Electricians
- Extruding, Forming, Pressing and Compacting Machine Setters and Set-up Operators
- File Clerks
- Financial Managers
- First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
- First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
- General Office Clerks
- Hand Packers and Packagers
- Industrial Engineers, Except Safety
- Industrial Production Managers
- Machine Feeder and Offbearers
- Machinery Maintenance Workers
- Marketing, Advertising and Public Relations Managers
- Mechanical Engineers
- Molders and Casters, Hand
- Numerical Machine Tool Operators
- Order Clerks
- Other Sales Representatives
- Packaging and Filling Machine Tenders
- Painting, Coating, and Decorating Workers, Hand
- Payroll and Timekeeping Clerks
- Personnel Clerks
- Personnel, Training and Labor Relations Managers
- Personnel, Training and Labor Relations Specialists

Plastic Molding and Casting Machine Operators and Tenders
Plumbers and Pipefitters
Precision Inspectors, Testers and Graders
Printing Press Machine Operators
Purchasing Agents
Purchasing Managers
Receptionists and Information Clerks
Safety Engineers, Except Mining
Stock Clerks - Stockroom, Warehouse or Storage Yard
Switchboard Operators
Tire Building Machine Operators
Tool and Die Makers
Tool Grinders, Filers Sharpeners and other Precision Grinders
Traffic, Shipping and Receiving Clerks
Truck Drivers, Heavy
Truck Drivers, Light
Typists
Weighers, Measurers, Checkers and Samplers - Recordkeeping

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
LEATHER AND LEATHER PRODUCTS

(SIC 31)

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials. Leather converters are also included.

There were 8,802 wage and salary workers employed in the leather and leather products industries during the survey month of April 1983. This represents an 8 percent decrease in employment (741 workers) from a similar occupational survey three years earlier.

Our sample consisted of 61 units representing an employment of 8,757. Usable responses were received from 42 units or 69 percent of the units sampled. The reported employment was 6,092 or 70 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT
1	92723	Shoe Sewing Machine Operators and Tenders	1,608
2	92956	Cementing and Gluing Machine Operators and Tenders	659
3	98902	Hand Packers and Packagers	365
4	89511	Shoe and Leather Workers and Repairers-Precision	338
5	93926	Cutters and Trimmers, Hand	290
6	98502	Machine Feeders and Offbearers	163
7	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	144
8	55347	General Office Clerks	135
9	19005	General Manager and Top Executives	125
10	98700	Freight, Stock and Material Movers, Hand	112

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	83.3
2	58028	Traffic, Shipping, and Receiving Clerks	57.1
	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	57.1
4	55100	Secretaries	52.4
	92723	Shoe Sewing Machine Operators and Tenders	52.4

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		8,802	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	256	2.9				
Financial Managers	13002	35	0.4	16	41	29	31.0
Personnel, Training & Labor Relations Managers	13005	14	0.2	15	16	12	26.2
Purchasing Managers	13008	11	0.1	20	13	9	21.4
Marketing, Advertising, and Public Relations Managers	13011	19	0.2	27	24	14	26.2
Industrial Production Managers	15014	13	0.1	25	16	10	23.8
General Managers And Top Executives	19005	125	1.4	10	137	113	83.3
All Other Managers And Administrators	19999	39	0.5	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL & TECHNICAL OCCUPATIONS	20000-39999	226	2.6				
Accountants & Auditors	21114	13	0.1	30	17	9	16.7
All Other Financial Specialists	21199	4	0.1	NA	-	-	NA
Purchasing Agents	21308	19	0.2	12	21	17	33.3
Cost Estimators	21902	12	0.1	32	16	8	16.7
All Other Management Support Workers	21999	23	0.3	NA	-	-	NA
Industrial Engineers, Except Safety	22128	20	0.2	28	26	14	16.7
All Other Engineers	22199	17	0.2	NA	-	-	NA
All Other Engineering & Related Technicians & Technologists	22599	25	0.3	NA	-	-	NA

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Physical Scientists	24199	4	0.1	NA	-	-	NA
All Other Physical And Life Science Technicians And Technologists	24599	1	*	NA	-	-	NA
Computer Programmers	25105	24	0.3	30	-	-	19.0
Computer Programmer Aides	25108	20	0.2	23	25	15	19.0
All Other Professional, Paraprofessional And Technical Workers	39999	44	0.5	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	90	1.0				
First Line Supervisors and Manager/Supervisors	41002	20	0.2	22	24	16	21.4
Other SAles Representatives	49008	24	0.3	20	29	19	21.4
All Other Sales and Related Workers	49999	46	0.5	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	1,000	11.4				
First Line Supervisors And Manager/Supervisors	51002	61	0.7	23	75	47	33.3
Secretaries	55100	75	0.9	16	87	63	52.4
Receptionists and Information Clerks	55305	14	0.2	25	17	11	26.2
Typists	55308	30	0.3	26	38	22	14.3
Personnel Clerks	55314	12	0.1	28	15	9	16.7
Procurement Clerks	55326	17	0.2	27	22	12	14.3
Bookkeeping, Accounting, And Auditing Clerks	55338	56	0.6	10	62	50	47.6
Payroll and Timekeeping Clerks	55341	54	0.6	7	58	50	42.9
General Office Clerks	55347	135	1.5	28	173	97	42.9
All Other Office Machine Operators	56099	42	0.5	NA	-	-	NA
Switchboard Operators	57102	19	0.2	14	22	16	31.0
Production, Planning, And Expediting Clerks	58008	30	0.3	16	35	25	31.0
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	94	1.1	17	110	78	23.8

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Traffic, Shipping, And Receiving Clerks	58028	96	1.1	27	122	70	57.1
All Other Material Recording, Scheduling & Dist. Workers	58099	103	1.2	NA	-	-	NA
All Other Clerical And Administrative Support Wkrs.	59999	162	1.8	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	115	1.3				
First Line Supervisors And Manager/Supervisors	61000	40	0.5	33	53	27	14.3
Janitors And Cleaners	67005	40	0.5	9	44	36	45.2
All Other Cleaners And Bldg. Service Workers	67099	29	0.3	NA	-	-	NA
All Other Service Workers	69999	6	0.1	NA	-	-	NA
AGRICULTURAL, FORESTRY FISHING AND RELATED WORKERS	70000-79999	1	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	7,114	80.8				
First Line Supvrs. And Mgr/Supvrs. - Production & Operating Workers	81008	144	1.6	12	161	127	57.1
Production Inspectors, Testers, Graders, Sorters, Samplers, & Weighers	83005	70	0.8	18	83	57	31.0
Maintenance Mechanics, Sewing Machine	85113	17	0.2	22	21	13	19.0
All Other Machinery Maintenance Mechanics	85119	15	0.2	NA	-	-	NA
Maintenance Repairers, General Utility	85132	84	1.0	11	93	75	47.6

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
All Other Mechanics, Installers, And Repairers	85999	16	0.2	NA	-	-	NA
All Other Const. Trades Workers	87899	10	0.1	NA	-	-	NA
Machinists	89108	18	0.2	26	13	23	11.9
All Other Precision Metal Workers	89199	4	*	NA	-	-	NA
Fabric & Apparel Patternmakers, And Layout Workers	89502	18	0.2	31	24	12	14.3
Shoe & Leather Workers & Repairers-Precision	89511	338	3.8	21	408	268	31.0
All Other Precision Textile, Apparel, & Furnishings Workers	89599	22	0.3	NA	-	-	NA
All Other Precision Workers	89999	38	0.4	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	64	0.7	NA	-	-	NA
Sewing Machine Operators, Non-Garment	92721	26	0.3	10	29	23	7.1
Shoe Sewing Machine Operators And Tenders	92723	1,608	18.3	12	1,800	1,416	52.4
Cutting & Slicing Machine Operators And Tenders	92944	22	0.3	10	24	20	11.9
Coating, Painting, & Spraying Machine Operators And Tenders	92953	30	0.3	28	38	22	11.9
Cementing & Gluing Machine Operators And Tenders	92956	659	7.5	33	874	444	40.5
All Other Machine Setters & Set-Up Operators	92997	179	2.0	NA	-	-	NA
All Other Machine Operators And Tenders	92998	213	2.4	NA	-	-	NA
Cutters And Trimmers, Hand	93926	290	3.3	23	356	224	31.0
All Other Hand Workers	93999	1,733	19.7	NA	-	-	NA
All Other Plant And System Operators	95099	3	*	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	19	0.2	18	22	16	21.4
All Other Transportation And Related Workers	97899	24	0.3	NA	-	-	NA

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Conveyor Operators & Tenders	97951	15	0.2	26	19	11	11.9
All Other Material Moving Equipment Operators	97999	27	0.3	NA	-	-	NA
Mechanic & Repairer Helpers	98102	10	0.1	30	13	7	9.5
Machine Feeders & OffBearers	98502	163	1.9	18	192	134	16.7
Freight, Stock, & Material Movers, Hand	98700	112	1.3	25	140	84	31.0
Hand Packers And Packagers	98902	365	4.1	18	432	298	28.6
All Other Helpers, Laborers & Material Movers, Hand	98999	758	8.6	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 35 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Assemblers and Fabricators, Except Machine, Electrical, Electronic and Precision
Automotive Mechanics
Billing, Cost and Rate Clerks
Billing, Posting, and Calculating Machine Operators
Boiler Operators, Low Pressure
Budget Analysts
Chemical Engineers
Chemical Engineering Technicians and Technologists
Chemists
Cleaning, Washing and Pickling Operators and Tenders
Coating, Painting and Spraying Machine Settersand Set-Up Operators
Computer Operators
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders
Custom Tailors and Sewers
Cutting and Slicing Machine Setters and Set-Up Operators
Cutters and Trimmers, Hand
Data Entry Keyers
Demonstrators, Promoters, and Models
Designers
Drafters
Electricians
Elevator Operators
Extruding, Forming, Pressing and Compacting Machine Operators and Tenders
File Clerks
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Transportation
Gardeners and Groundskeepers
Guards and Watch Guards
Health Practitioners, Technicians and Technologists
Heat, Air Conditioning, and Refrigeration Mechanics
Industrial Engineering Technicians and Technologists
Industrial Truck and Tractor Operators
Machinery Maintenance Workers
Maintenance Mechanics, Textile Machines
Mechanical Engineers
Mechanical Engineering Technicians and Technologists
Millwrights
Order Clerks
Packaging and Filling Machine Operators
Painting, Coating, and Decorating Workers, Hand
Peripheral EDP Equipment Operators
Personnel, Training, and Labor Relations Specialists
Plastic Molding and Casting Machine Setters and Set-Up Operators
Plastic Molding and Casting Machine Operators
Plumbers and Pipefitters
Portable Machine Cutters
Precision Inspectors, Testers and Graders
Precision Woodworkers
Pressing Machine Operators
Pressers, Hand
Programmers-Numerical,Tool,Process Control and Safety Engineers, Except Mining
Sales Representatives, Scientific and Related Products and Services
Sewers, Hand
Statistical Clerks
Stenographers
Systems Analysts
Teachers and Instructors, Vocational Education and Training
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
Truck Drivers, Heavy or Tractor Trailer
Typists, Word Processor
Water and Liquid Waste Treatment Plant and System Operators
Weighers, Measurers, Checkers, and Samplers-Recordkeeping

APPENDIX

The new OES coding structure provides for the allocation of occupations reported into seven major categories. Specifically these occupational categories are as follows:

10000-19999 I. Managerial and Administrative Occupations

Includes top and middle level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of industrial, commercial, governmental or other establishments. Typical examples are: Corporate Officers; Plant Managers; Branch Managers; District Managers; Production Superintendents; General Superintendents; and Managers of such departments as budget, purchasing, sales and distribution, advertising, public relations, personnel and training, etc.

20000-39000 II. Professional, Paraprofessional and Technical Occupations

Includes persons concerned with the theoretical or practical aspects of such fields as science, art, education, law and business relations where substantial post-secondary educational preparation or equivalent on-the-job training or experience is required. Typical examples are: Architects; Engineers; Metallurgists; Physicists; Mathmeticians; Statisticians; Biologists; Economists; Accountants and Auditors; Purchasing Agents; Public Relations Practitioners; Personnel and Training Specialists (other than departmental managers); Lawyers; Physicians and Surgeons; Registered Nurses; Editors and Writers; Teachers; Air Traffic Controllers; Computer Programmers; Drafters; and Chemical Technicians (except Health).

40000-49000 III. Sales and Related Occupations

Includes persons selling goods or services and others directly related to sales. Typical examples are: Sales Agents and Placers, Insurance; Sales Engineers; Cashiers; and Salespersons, Retail.

50000-59999 IV. Clerical and Administrative Support Occupations

Includes persons performing office and plant clerical tasks such as typing, filing, computer operating, records keeping (personnel, stock, production, billing, etc.); and mail preparation and distributing.

60000-69999 V. Service Occupations

Includes workers in occupations relating to protective service, food service, health assisting service, cleaning and building service and personal service.

70000-79999 VI. Agricultural, Forestry, Fishing and Related Occupations

Includes workers concerned with agricultural production, forestry, and fishing. Also included in this division are agriculture related workers such as animal caretakers and groundskeepers.

80000-98999 VII. Production, Construction, Operating, Maintenance and Material Handling Occupations

Includes all skilled, semiskilled and unskilled workers performing machine and manual tasks involving production, construction, operating, maintenance, repair and material handling operations.

Explanation of Footnotes:

1/ Employment estimate represents covered employment adjusted for additional current information. Data entries were not rounded in order to preserve their analytic value. However, they should not be construed as being absolute but rather as relative values.

2/ Relative errors apply equally to estimated employment and the present distribution. Please refer to technical notes for an explanation of relative error.

N.A. Not applicable

METHODOLOGY

A. Sample and Survey Response

The second quarter of the 1982 report of employment and wages covered by the New Hampshire Unemployment Compensation Law was used as the sampling frame for this survey. The manufacturing establishments were stratified by three digit SIC'S (Standard Industrial Classification) and by size class. Any unit with two hundred fifty or more employees was automatically included in the sample.

The actual reported survey period varied by industry and was either the week including April 12, May 12, or June 12, 1983 as designated by the U.S. Bureau of Labor Statistics.

Usable responses were received from 887 establishments or 73 percent of the 1,139 units surveyed. Employment reported by these units accounted for 77 percent of the total surveyed employment. The survey was conducted by mail and consisted of an initial mailing and one followup. Phone calls were made when needed to insure the validity of the estimates.

B. Estimating Procedure

All usable employer questionnaires were separated into seven employment size groups by industry. For example, establishments with employment of 4 - 9 would be in one size class and those with employment of 10 - 19 would be in another size class, etc. One class size in one industry represents an estimating cell. All establishments in a given estimating cell were assigned a sample weight which is the inverse of the sampling ratio. For example, if the reported employment in a specific occupation for an establishment is 100, and only one out of two establishments in this estimating cell is included in the sample, the weight assigned to this establishment would be the inverse of ½ which is two, for estimating purposes, the 100 employment would have a representation of 200 (2 X 100). The employment for any specific occupation in each establishment is blown-up (inflated) by its sample weight and summed for all sample establishments in the cell. A ratio is then obtained by dividing this sum by the weighted total employment. This ratio is multiplied by the benchmark employment for that estimating cell corresponding to the survey month of April, May, or June 1983 depending on the industry being estimated. This yields the occupational make-up of the estimating cell for that month. Finally, the employment in like occupations are summed across all employment size classes within the three-digit SIC (Standard Industrial Classification) level to arrive at a total industry employment for each occupation.

C. Variance

Variance is defined as the difference between an expected universe count of an occupation and the actual sample count obtained in a survey. It is computed for each occupation at the estimating cell level. An estimating cell is composed of all establishments in one size class in one industry. The variance for an occupational estimate is the squared and weighted sample observations times a series of correction factors. The sum of the squared and weighted sample observations is derived from summation formulas dealing with weights assigned to establishments, total employment reported by establishments, and employment reported by establishments for specific occupations. The series of correction factors are derived from summation formulas dealing with benchmark employment less employment for volunteer reports, total employment reported by establishments, and the square of estimating cell benchmark factors (which are calculated by dividing the cell's benchmark employment by weighted total employment for the cell).

D. Sampling Error

Sampling error is defined as the difference between the estimated data derived from a sample and the data which would be expected if the entire universe of employers were surveyed. It is calculated by taking the square root of the variance of the estimates. In this publication, sampling error is measured on a 68 percent degree of confidence level or one standard deviation. For example, if an estimate of 100 has an associate sampling error of 10 the probability is 68 percent, or two chances out of three, that the true population value would be somewhere between 90 and 110.

E. Relative Error

Relative error expresses the sampling error as a percentage of the estimate. It is derived by dividing the sampling error (or square root of the variance) by the estimate and then multiplying by 100. For example, to illustrate the use of relative error, leather and leather products (SIC 31) lists an estimated total of 338 Shoe and Leather Workers & Repairers with a relative error of 21 percent. This indicates, at the 68 percent confidence level, the probability is two chances out of three that the results of a universe count of Shoe and Leather Workers & Repairers would not differ from the estimate by more than 70 or an estimated high of 408 or low of 268. Any specific occupation with ten or more employees and a relative error of 50 percent or less was published separately in this report except in industries 31, 25, 26, and 36, where a relatively poor survey response restricted the relative error to the 35 percent level. Relative error was computed only for specific occupations and not for residual categories or occupational groupings.

F. Nonsampling Error

The results of this survey are subject to biases and other nonsampling errors. Although careful editing and screening steps were taken, such errors could arise from faulty questionnaire design, ineffective processing techniques, inaccuracy of data furnished, or the inability to collect data as defined. Non-respondents are a source of nonsampling error for which corrective measures are not available. The possibility of these errors was recognized from the beginning and every effort was made for their elimination.

Percent of firms reporting each occupation could not be readily calculated for groups of occupations, but only for specific occupations.

Publishing Criteria

The criteria used for publishing occupational estimates were as follows:

1) A response rate of at least 70 percent of the benchmark employment.

2) Industry employment of 1,000 or more.

3) A maximum relative error of 50 percent for firms with a least a 75 percent response for employment.

4) A maximum relative error of 35 percent for firms with a response rate less than 75 percent but greater than or equal to 70 percent.

5) Three or more employers reporting an occupation.

6) No one firm reporting 50 percent of the occupational estimate or two firms combined reporting 75 percent of the occupational estimate.

7) A minimum occupational employment of 10.

Estimates for an occupation which did not meet publication criteria were added to the appropriate residual category and listed at the end of each occupational estimate table.

Manufacturing Survey Design

All Manufacturing industries (SIC's 20-39) were surveyed. A sample of approximately 1,139 firms were surveyed, representing 96 percent of the manufacturing industries' employment.

AVAILABLE OCCUPATIONAL PROFILES
AS OF APRIL 1985

INDUSTRY	SURVEY YEAR	DATE PUBLISHED
WHOLESALE AND RETAIL TRADE	1982	October 1983
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1982	October 1983
FEDERAL, STATE AND LOCAL GOVERNMENT	1982	October 1983
MANUFACTURING	1980	August 1981
HOSPITALS	1980	March 1981
CONTRACT CONSTRUCTION, FINANCE, INSURANCE AND REAL ESTATE, SERVICES	1981	NONE
WHOLESALE AND RETAIL TRADE	1979	December 1980
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1979	December 1980
FEDERAL, STATE AND LOCAL GOVERNMENT	1979	November 1980
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1978	November 1980
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1978	November 1979
MANUFACTURING	1983	March 1985
HOSPITALS	1983	March 1985

FUTURE PUBLICATIONS	SURVEY YEAR
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1984
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1985
FEDERAL, STATE AND LOCAL GOVERNMENT	1985
WHOLESALE AND RETAIL TRADE	1985
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1985